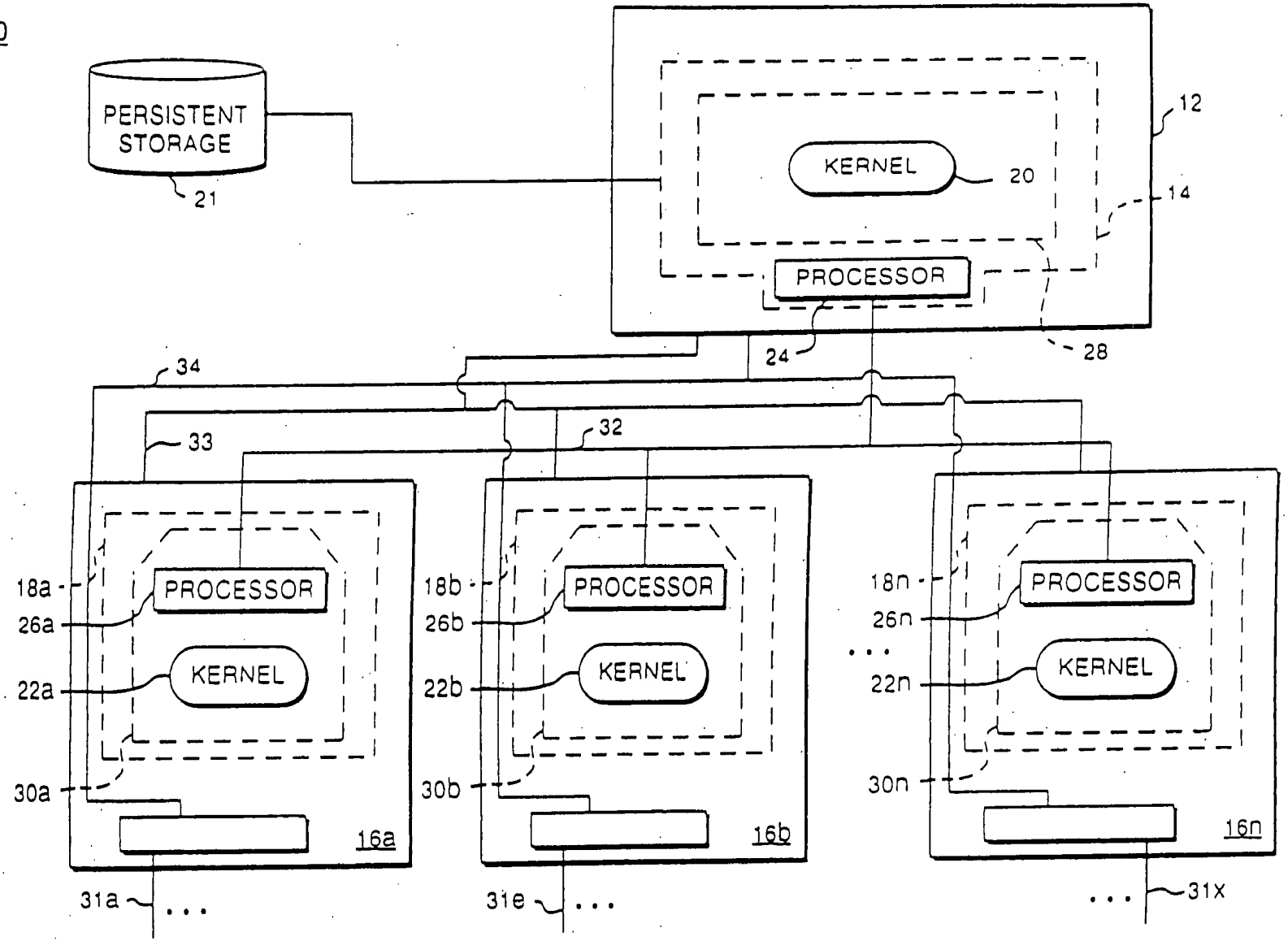


FIG. 1

OIPE IAP62 APR 18 2006 PATENT & TRADEMARK OFFICE

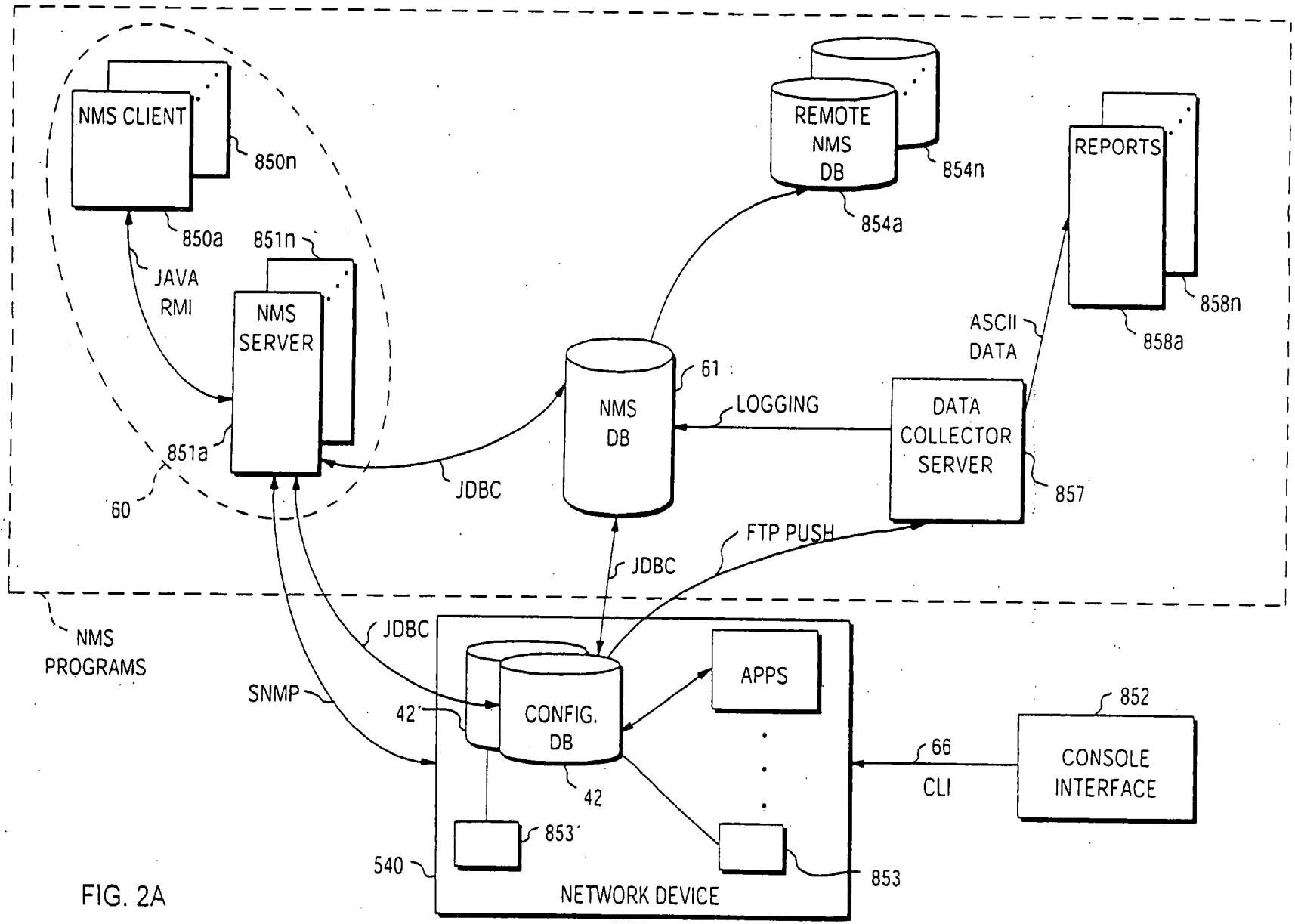

NMS CLIENT
850n
850a
851n
JAVA
RMI
NMS
SERVER
851a
60
JDBC
NMS
DB
61
REMOTE
NMS
DB
854n
854a
LOGGING
DATA
COLLECTOR
SERVER
857
REPORTS
858n
858a
ASCII
DATA
FTP PUSH
JDBC
NMS
PROGRAMS
JDBC
SNMP
42'
CONFIG.
DB
42
APPS
853'
853
540
NETWORK DEVICE
66
CLI
852
CONSOLE
INTERFACE

FIG. 2A

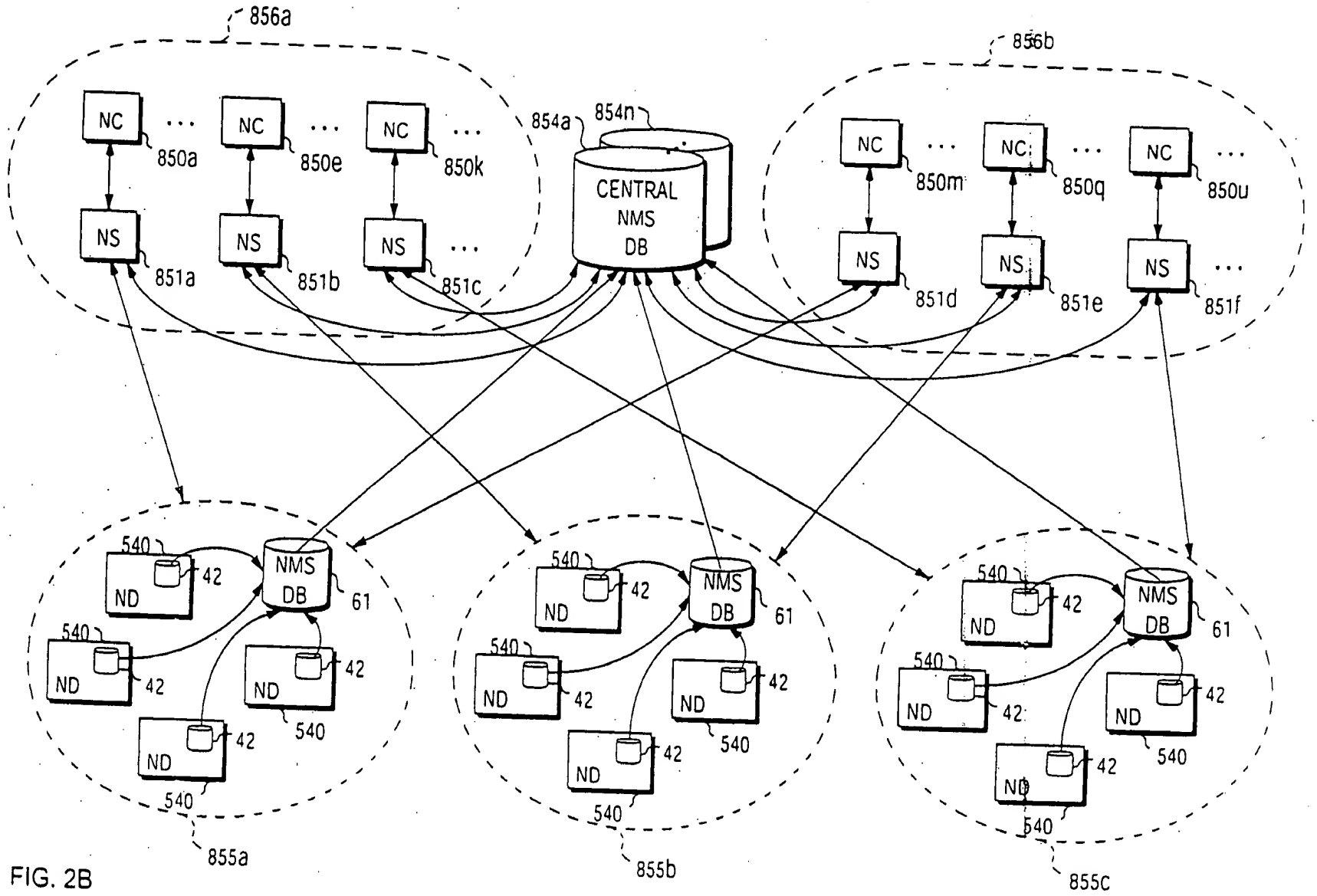

856a
856b
NC
850a
NC
850e
NC
850k
NS
851a
NS
851b
NS
851c
854a
854n
CENTRAL
NMS
DB
NC
850m
NC
850q
NC
850u
NS
851d
NS
851e
NS
851f
540
ND
42
NMS
DB
61
855a
855b
855c

FIG. 2B

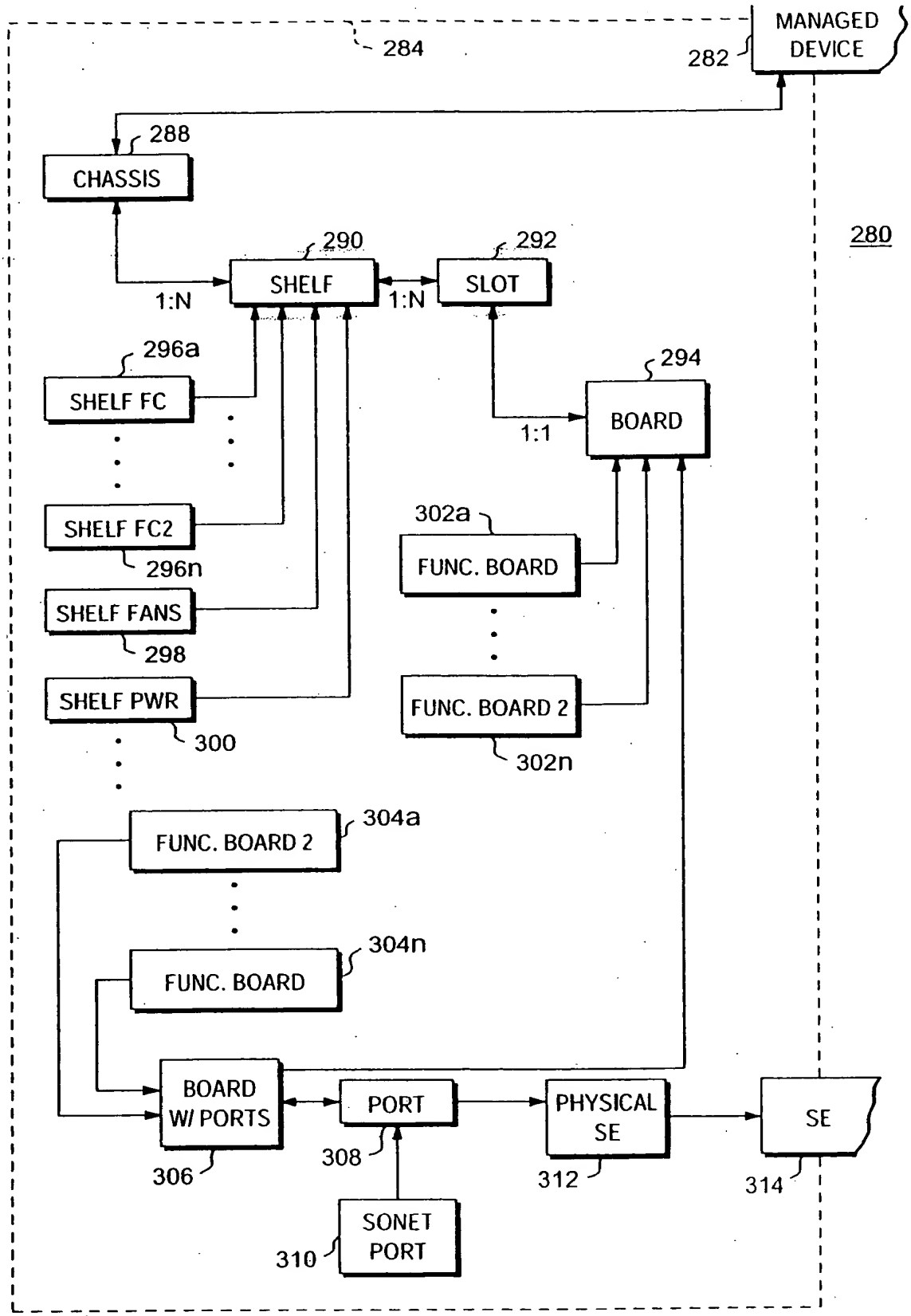

284
MANAGED DEVICE
282
288
CHASSIS
280
290
SHELF
292
SLOT
1:N
1:N
296a
SHELF FC
294
BOARD
1:1
SHELF FC2
296n
302a
FUNC. BOARD
SHELF FANS
298
FUNC. BOARD 2
302n
SHELF PWR
300
304a
FUNC. BOARD 2
304n
FUNC. BOARD
BOARD W/ PORTS
306
PORT
308
PHYSICAL SE
312
SE
314
SONET PORT
310

FIG. 3A

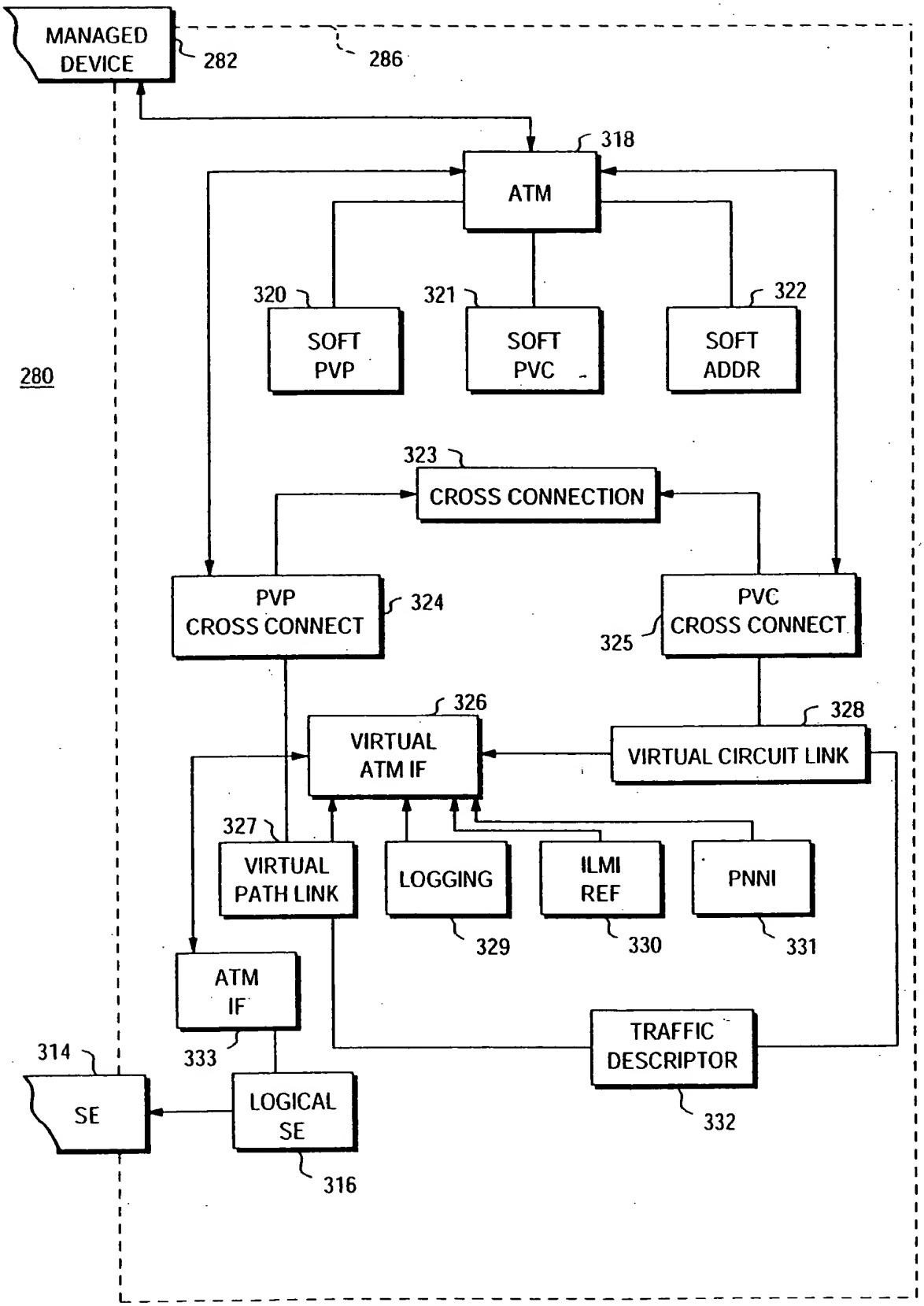


FIG. 3A CONTINUED

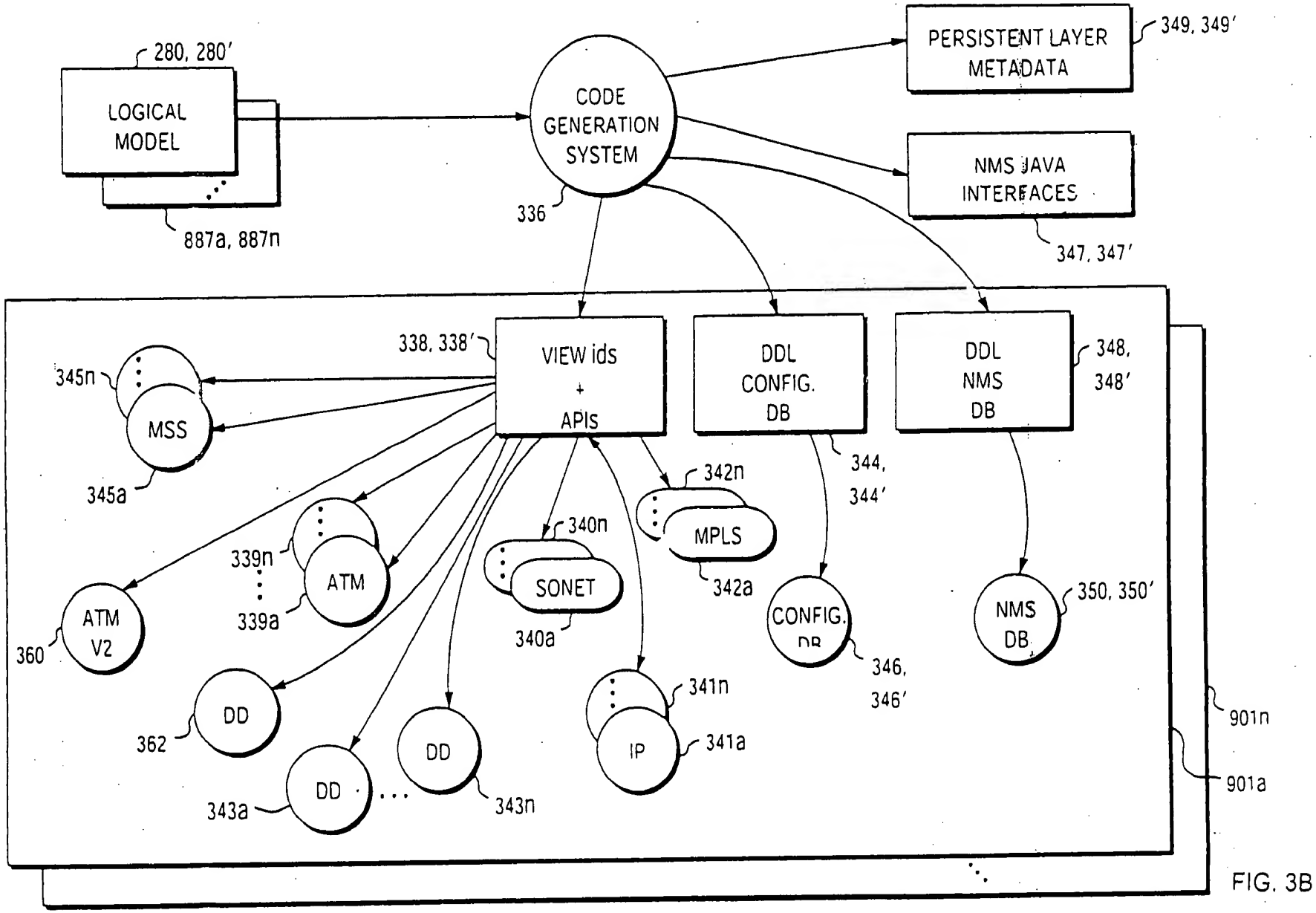

280, 280'
LOGICAL MODEL
887a, 887n
CODE GENERATION SYSTEM
336
PERSISTENT LAYER METADATA
349, 349'
NMS JAVA INTERFACES
347, 347'
338, 338'
VIEW ids + APIs
DDL CONFIG. DB
DDL NMS DB
348, 348'
345n
MSS
345a
342n
MPLS
342a
344, 344'
340n
SONET
340a
339n
ATM
339a
ATM V2
360
CONFIG. DB
346, 346'
NMS DB
350, 350'
DD
362
DD
343a
DD
343n
341n
IP
341a
901n
901a

FIG. 3B

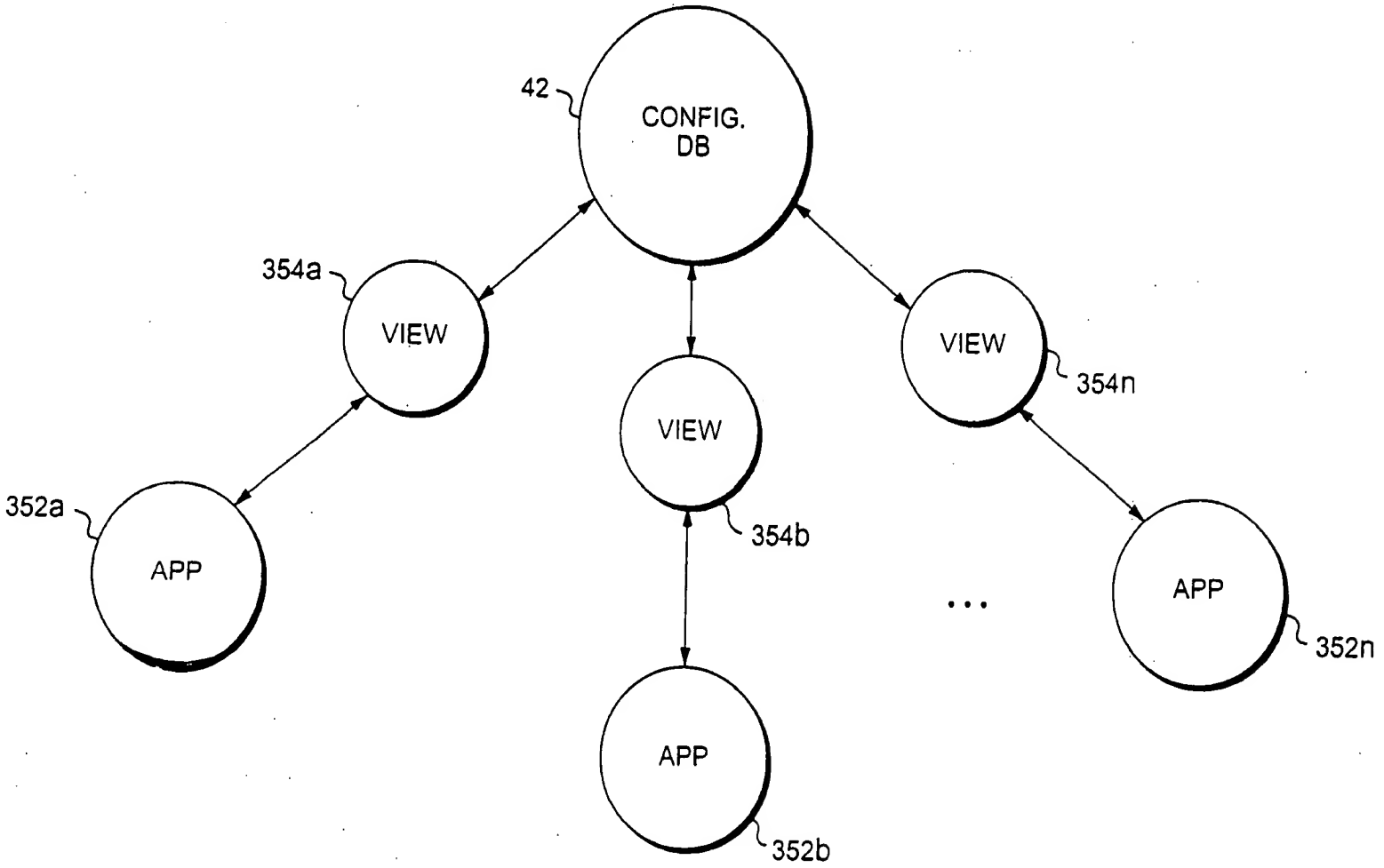

42
CONFIG. DB
354a
VIEW
VIEW
354b
VIEW
354n
352a
APP
APP
352b
...
APP
352n

FIG. 3C

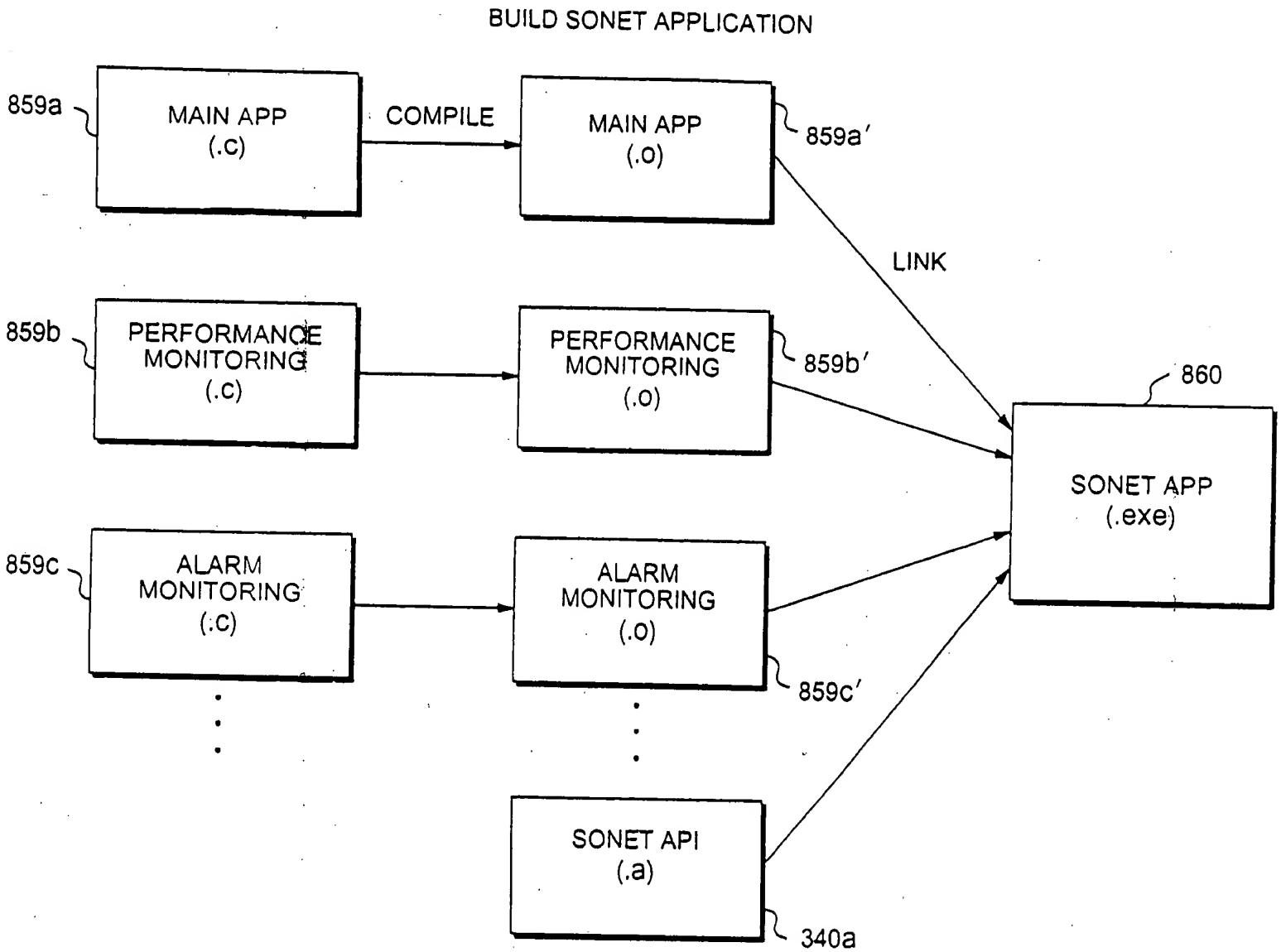

BUILD SONET APPLICATION
859a
MAIN APP
(.c)
COMPILE
MAIN APP
(.o)
859a'
LINK
859b
PERFORMANCE
MONITORING
(.c)
PERFORMANCE
MONITORING
(.o)
859b'
860
SONET APP
(.exe)
859c
ALARM
MONITORING
(.c)
ALARM
MONITORING
(.o)
859c'
SONET API
(.a)
340a

FIG. 3D

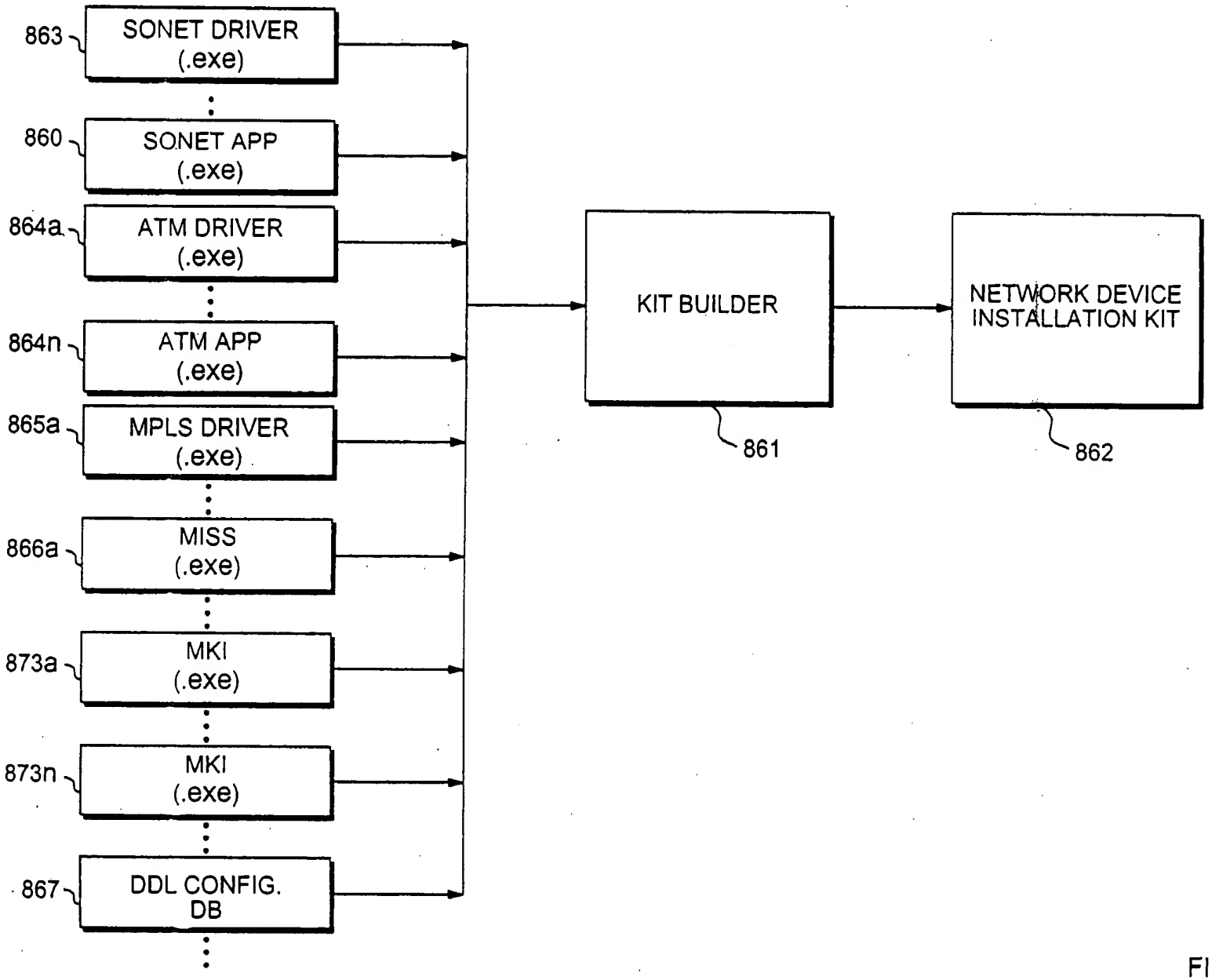

863
SONET DRIVER (.exe)
860
SONET APP (.exe)
864a
ATM DRIVER (.exe)
864n
ATM APP (.exe)
865a
MPLS DRIVER (.exe)
866a
MISS (.exe)
873a
MKI (.exe)
873n
MKI (.exe)
867
DDL CONFIG. DB
KIT BUILDER
861
NETWORK DEVICE INSTALLATION KIT
862

FIG. 3E

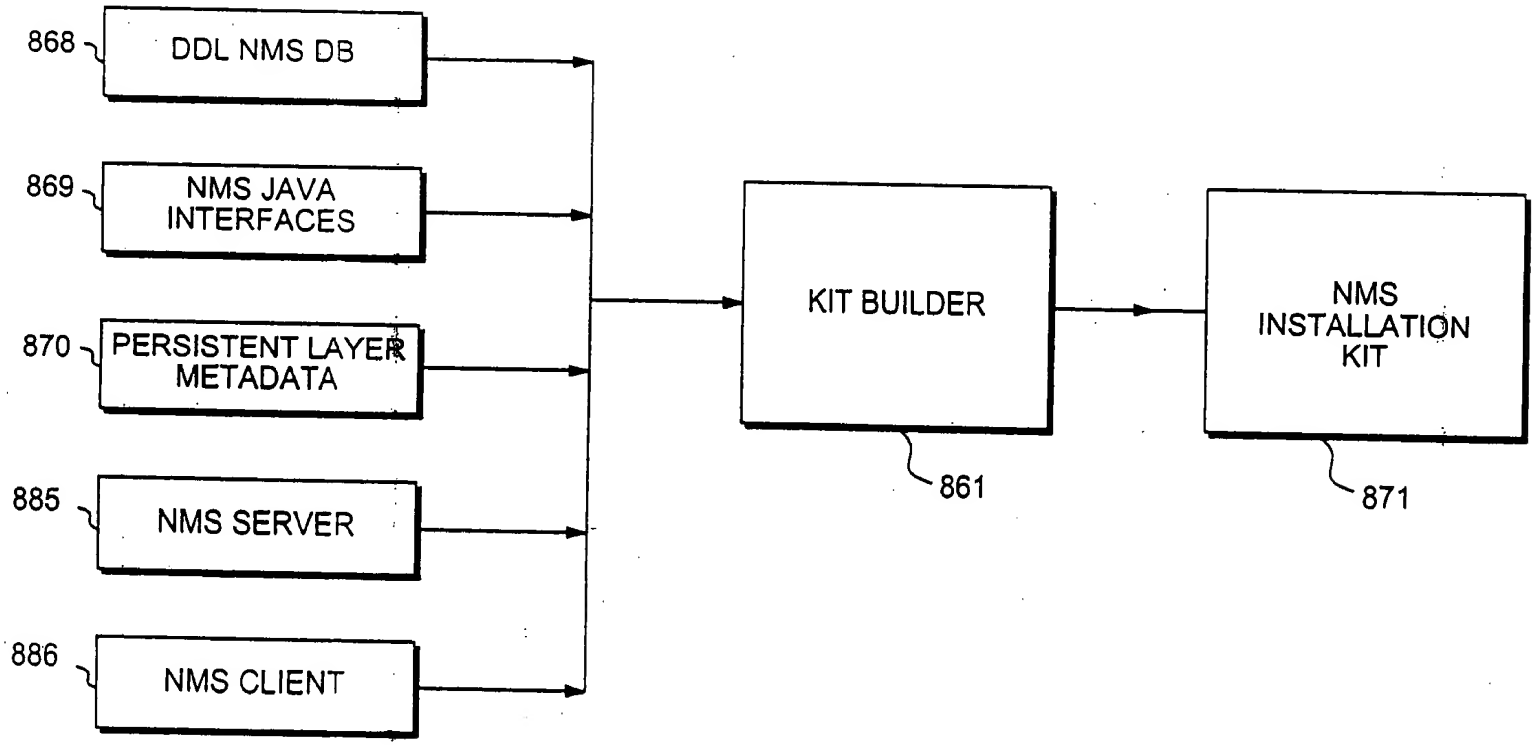

868
DDL NMS DB
869
NMS JAVA INTERFACES
870
PERSISTENT LAYER METADATA
885
NMS SERVER
886
NMS CLIENT
KIT BUILDER
861
NMS INSTALLATION KIT
871

FIG. 3F

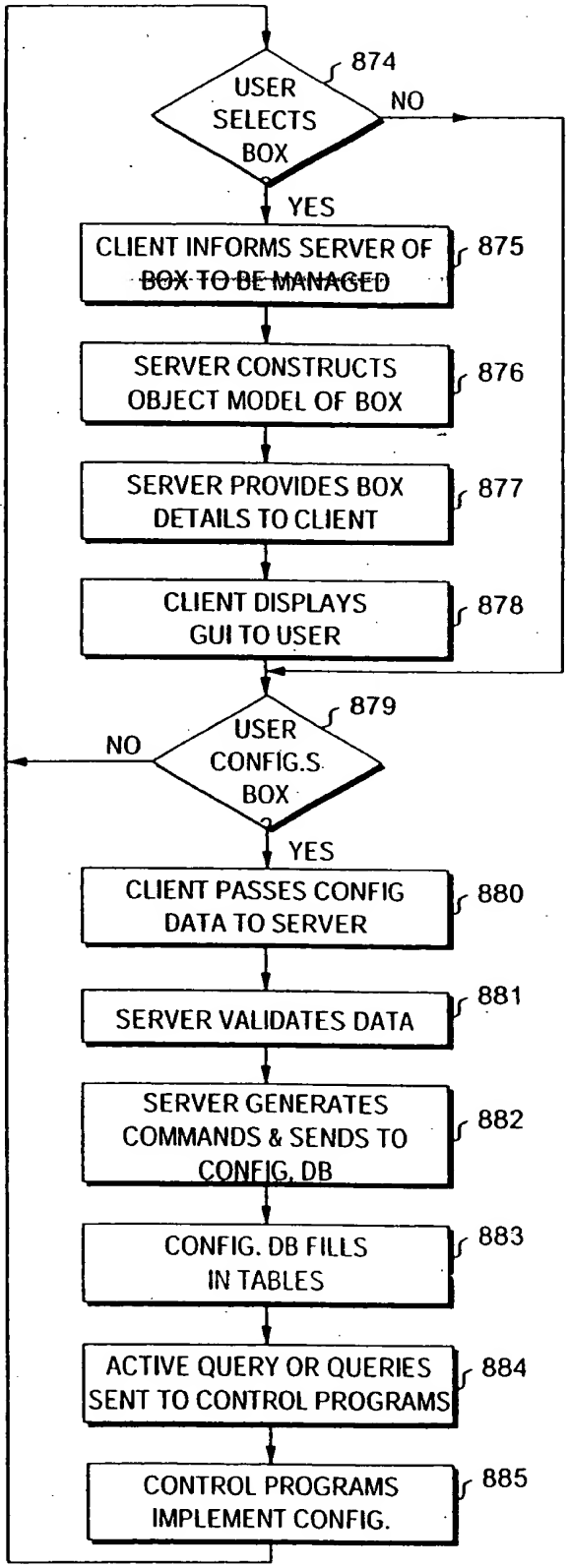

874
USER SELECTS BOX
NO
YES
CLIENT INFORMS SERVER OF BOX TO BE MANAGED
875
SERVER CONSTRUCTS OBJECT MODEL OF BOX
876
SERVER PROVIDES BOX DETAILS TO CLIENT
877
CLIENT DISPLAYS GUI TO USER
878
879
USER CONFIG.S BOX
NO
YES
CLIENT PASSES CONFIG DATA TO SERVER
880
SERVER VALIDATES DATA
881
SERVER GENERATES COMMANDS & SENDS TO CONFIG. DB
882
CONFIG. DB FILLS IN TABLES
883
ACTIVE QUERY OR QUERIES SENT TO CONTROL PROGRAMS
884
CONTROL PROGRAMS IMPLEMENT CONFIG.
885

FIG. 3G

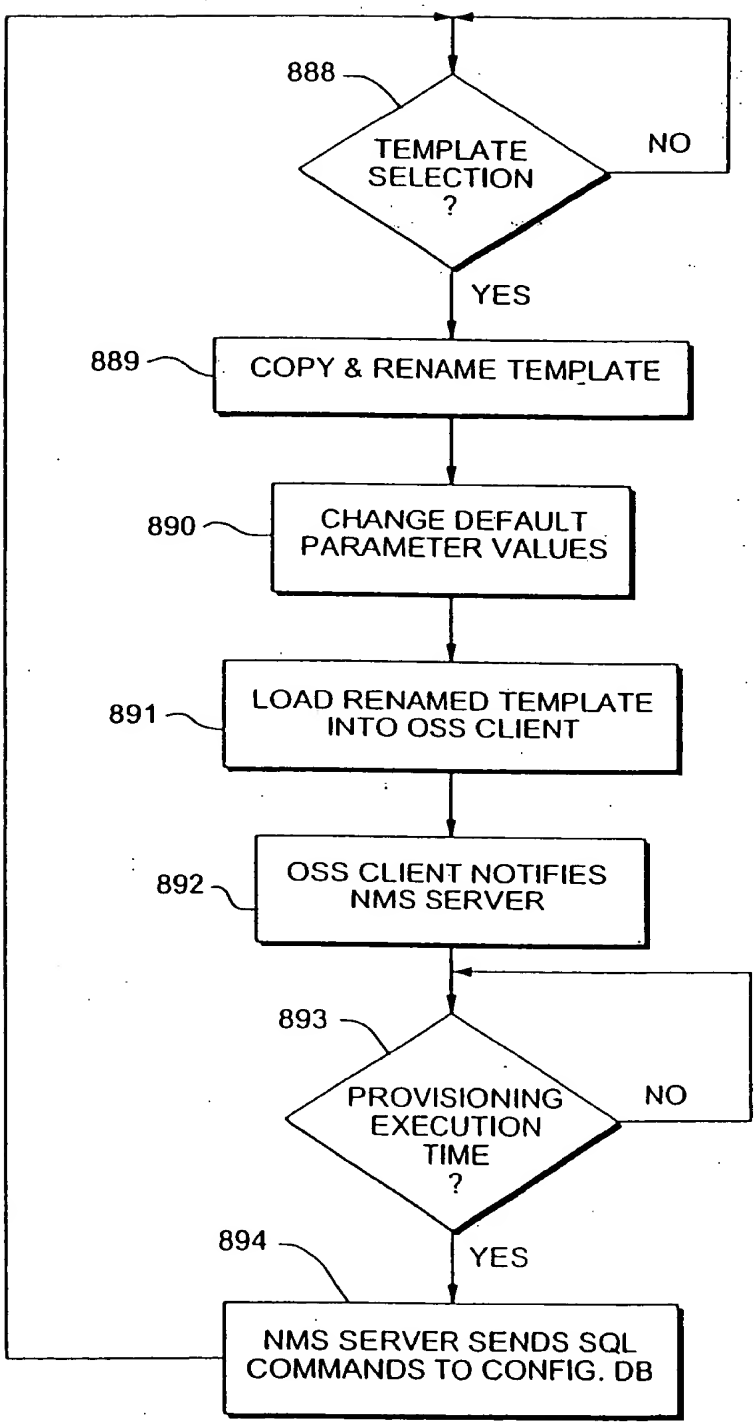

888
TEMPLATE SELECTION ?
NO
YES
889
COPY & RENAME TEMPLATE
890
CHANGE DEFAULT PARAMETER VALUES
891
LOAD RENAMED TEMPLATE INTO OSS CLIENT
892
OSS CLIENT NOTIFIES NMS SERVER
893
PROVISIONING EXECUTION TIME ?
NO
YES
894
NMS SERVER SENDS SQL COMMANDS TO CONFIG. DB

FIG. 3H

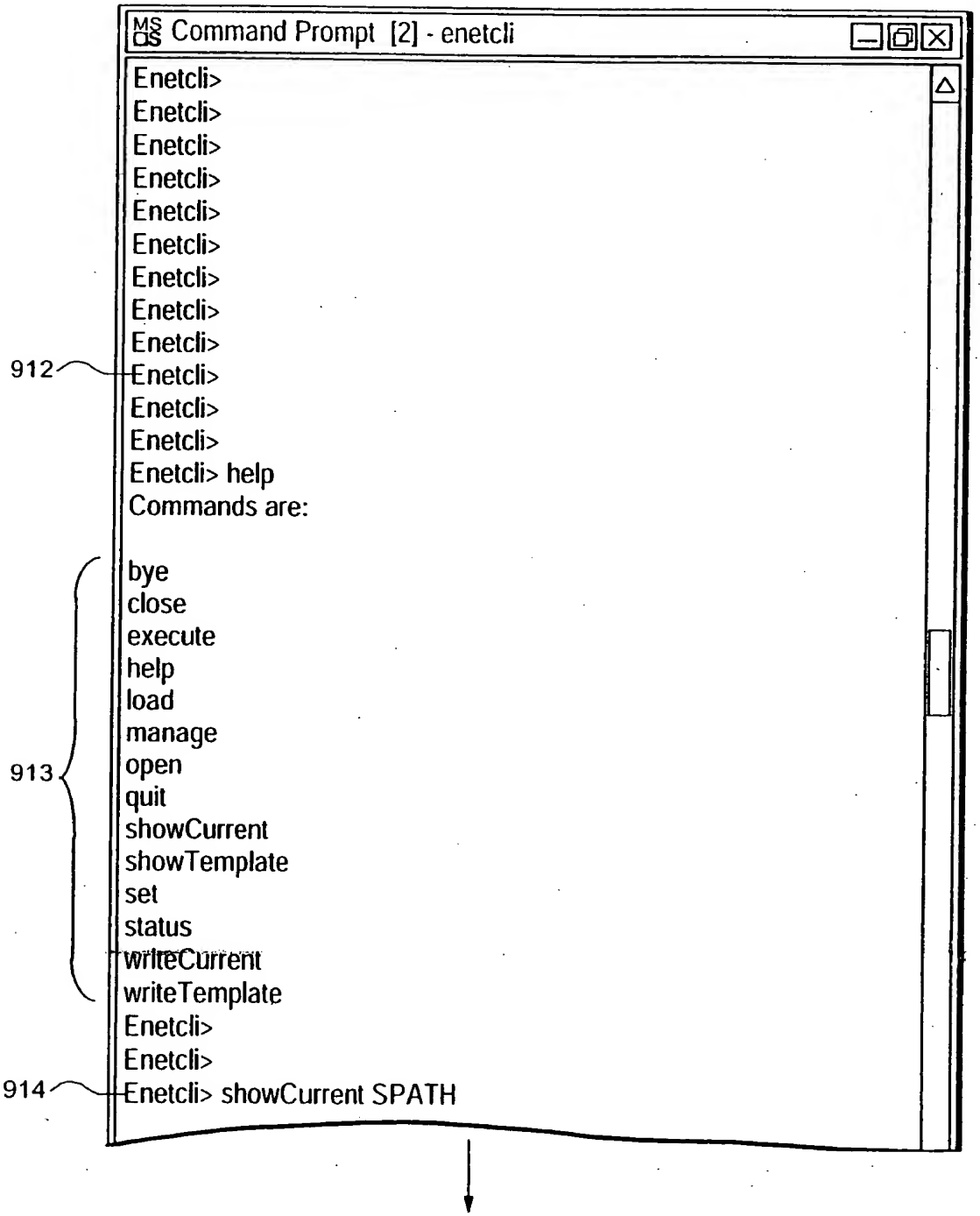


FIG. 3I CONTINUED

FIG. 3I

FROM FIG. 3I

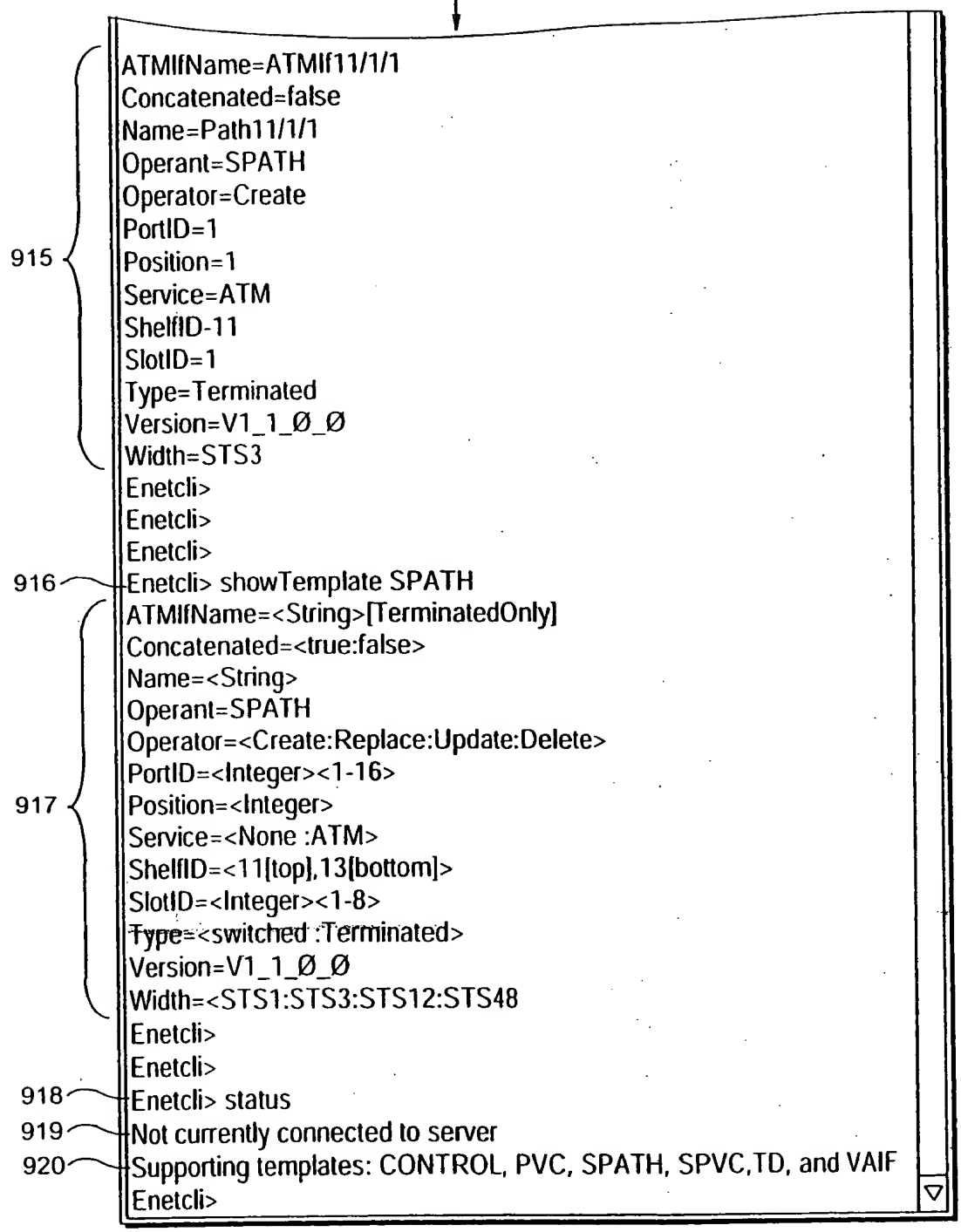


FIG. 3I CONTINUED

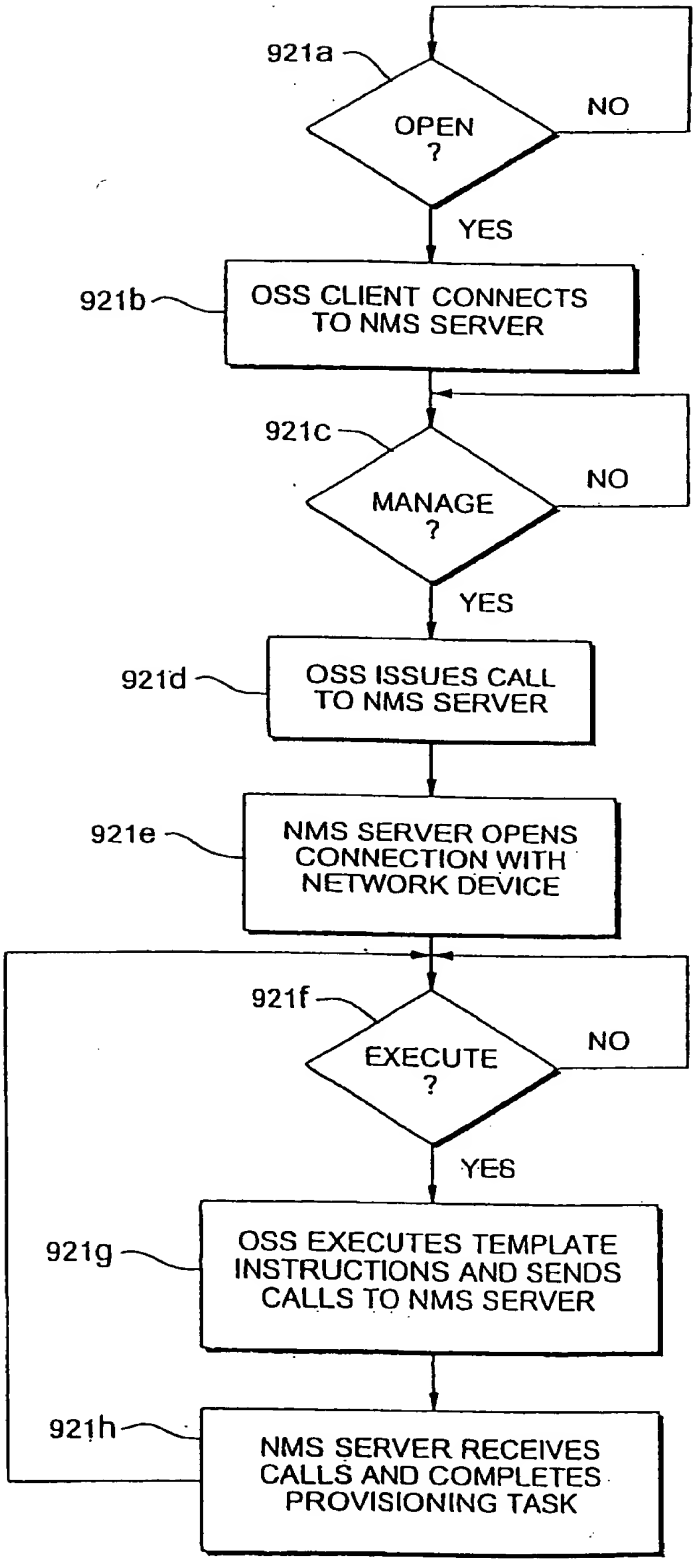

921a
OPEN ?
NO
YES
921b
OSS CLIENT CONNECTS TO NMS SERVER
921c
MANAGE ?
NO
YES
921d
OSS ISSUES CALL TO NMS SERVER
921e
NMS SERVER OPENS CONNECTION WITH NETWORK DEVICE
921f
EXECUTE ?
NO
YES
921g
OSS EXECUTES TEMPLATE INSTRUCTIONS AND SENDS CALLS TO NMS SERVER
921h
NMS SERVER RECEIVES CALLS AND COMPLETES PROVISIONING TASK

FIG. 3J

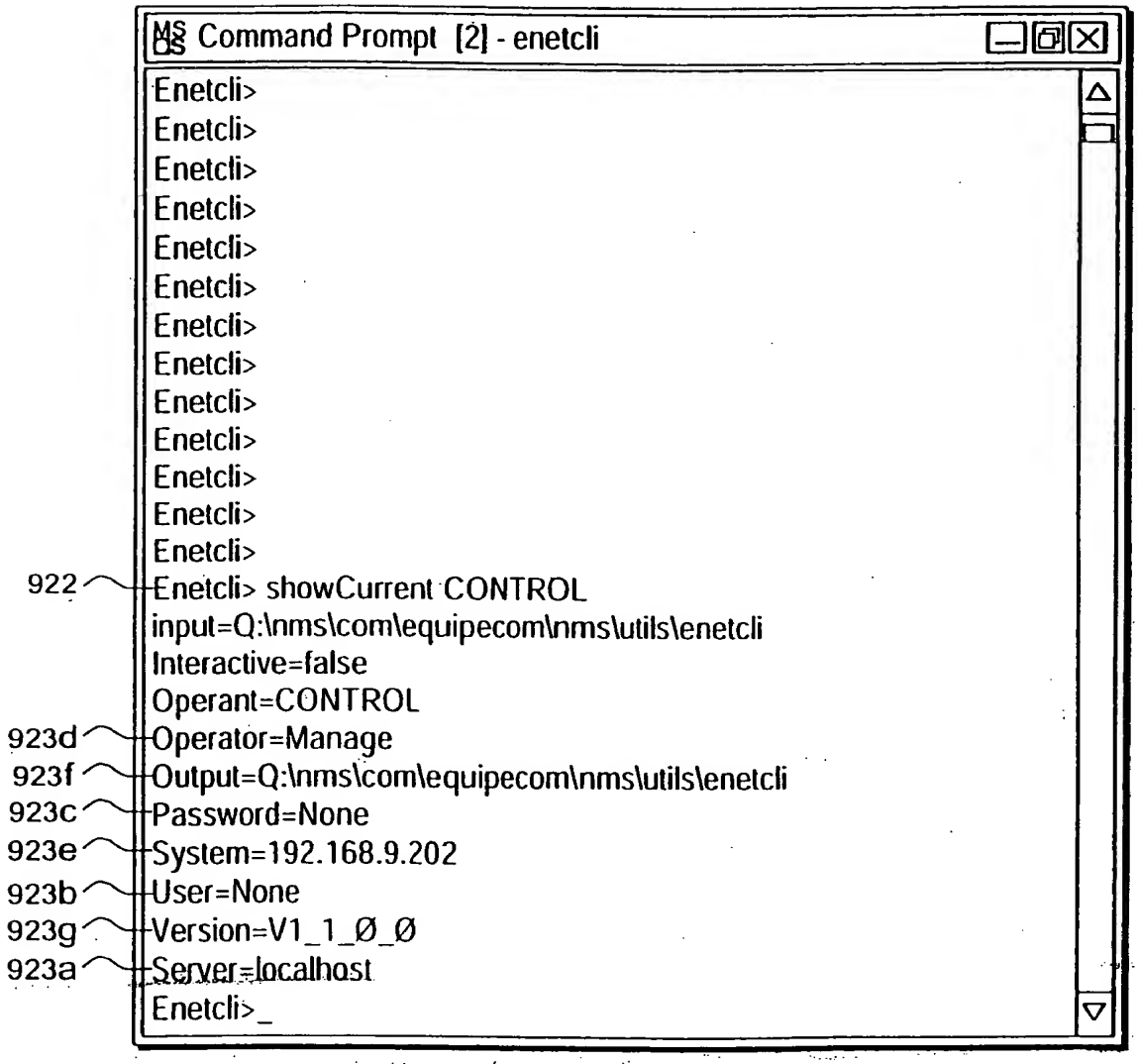

MS DOS Command Prompt [2] - enetcli
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
922
Enetcli> showCurrent CONTROL
input=Q:\nms\com\equipecom\nms\utils\enetcli
Interactive=false
Operant=CONTROL
923d
Operator=Manage
923f
Output=Q:\nms\com\equipecom\nms\utils\enetcli
923c
Password=None
923e
System=192.168.9.202
923b
User=None
923g
Version=V1_1_Ø_Ø
923a
Server=localhost
Enetcli>_

FIG. 3K

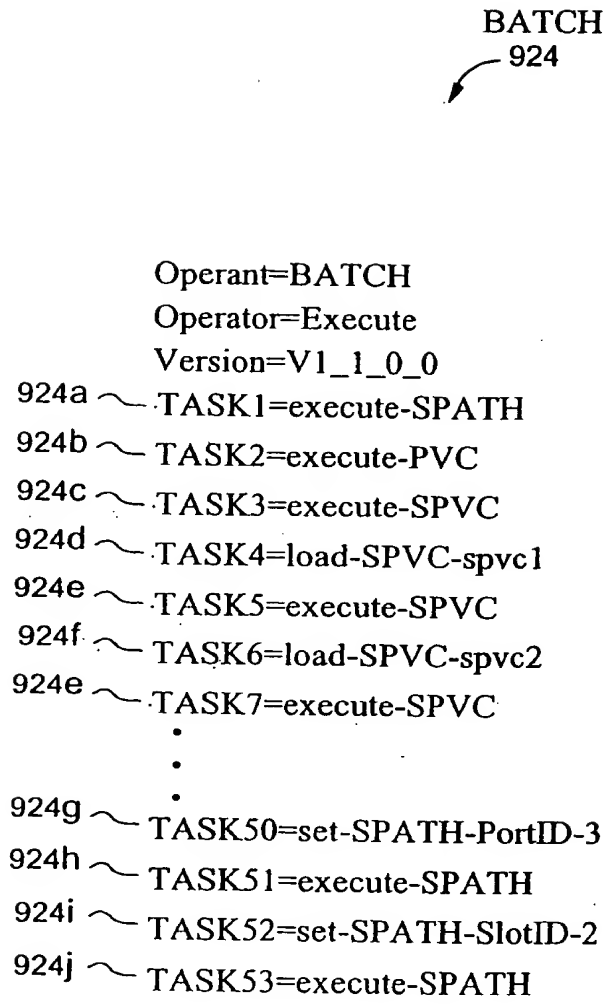

BATCH
924
Operant=BATCH
Operator=Execute
Version=V1_1_0_0
924a TASK1=execute-SPATH
924b TASK2=execute-PVC
924c TASK3=execute-SPVC
924d TASK4=load-SPVC-spvc1
924e TASK5=execute-SPVC
924f TASK6=load-SPVC-spvc2
924e TASK7=execute-SPVC
924g TASK50=set-SPATH-PortID-3
924h TASK51=execute-SPATH
924i TASK52=set-SPATH-SlotID-2
924j TASK53=execute-SPATH

FIG. 3L

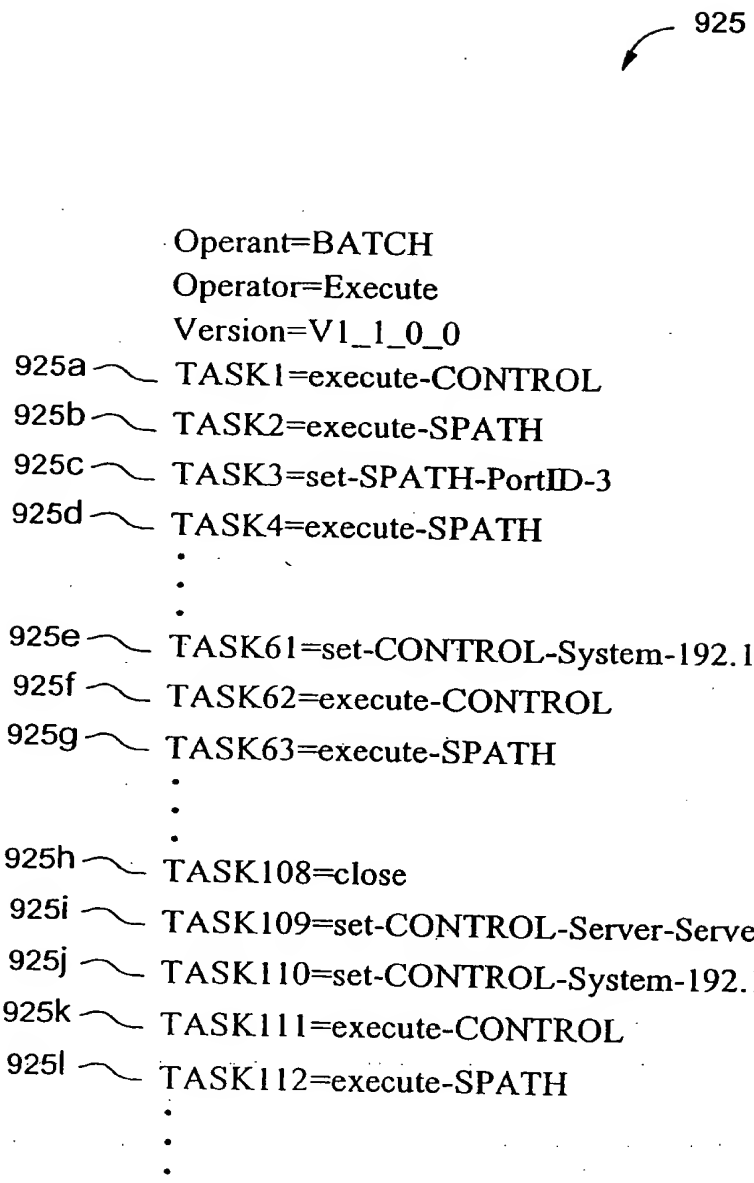

925
Operant=BATCH
Operator=Execute
Version=V1_1_0_0
925a
TASK1=execute-CONTROL
925b
TASK2=execute-SPATH
925c
TASK3=set-SPATH-PortID-3
925d
TASK4=execute-SPATH
925e
TASK61=set-CONTROL-System-192.168.9.201
925f
TASK62=execute-CONTROL
925g
TASK63=execute-SPATH
925h
TASK108=close
925i
TASK109=set-CONTROL-Server-Server1
925j
TASK110=set-CONTROL-System-192.168.8.200
925k
TASK111=execute-CONTROL
925l
TASK112=execute-SPATH

FIG. 3M

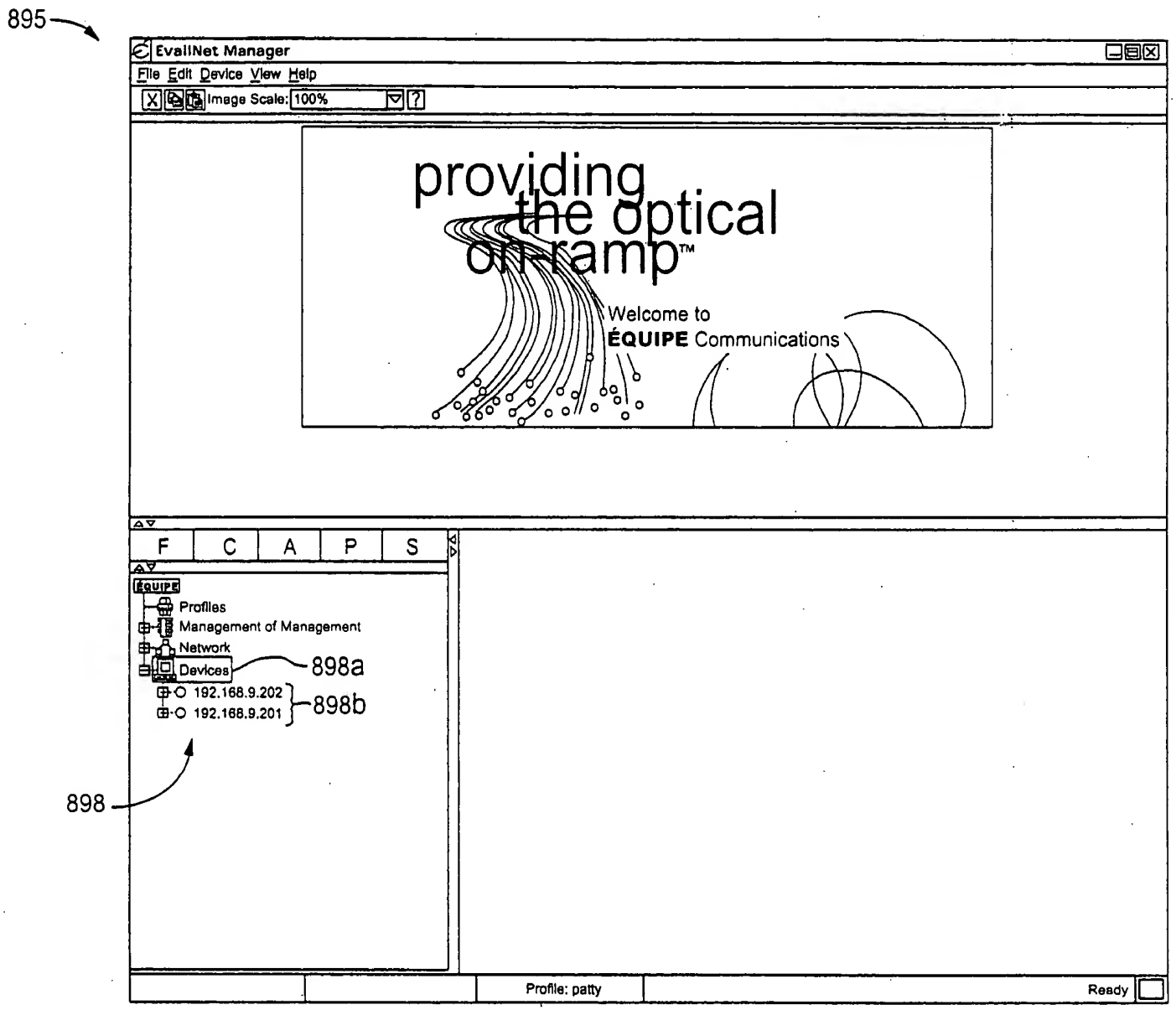

895
EvalNet Manager
File Edit Device View Help
Image Scale: 100%
providing the optical on-ramp™
Welcome to
ÉQUIPE Communications
F
C
A
P
S
ÉQUIPE
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.201
898b
898
Profile: patty
Ready

FIG. 4A

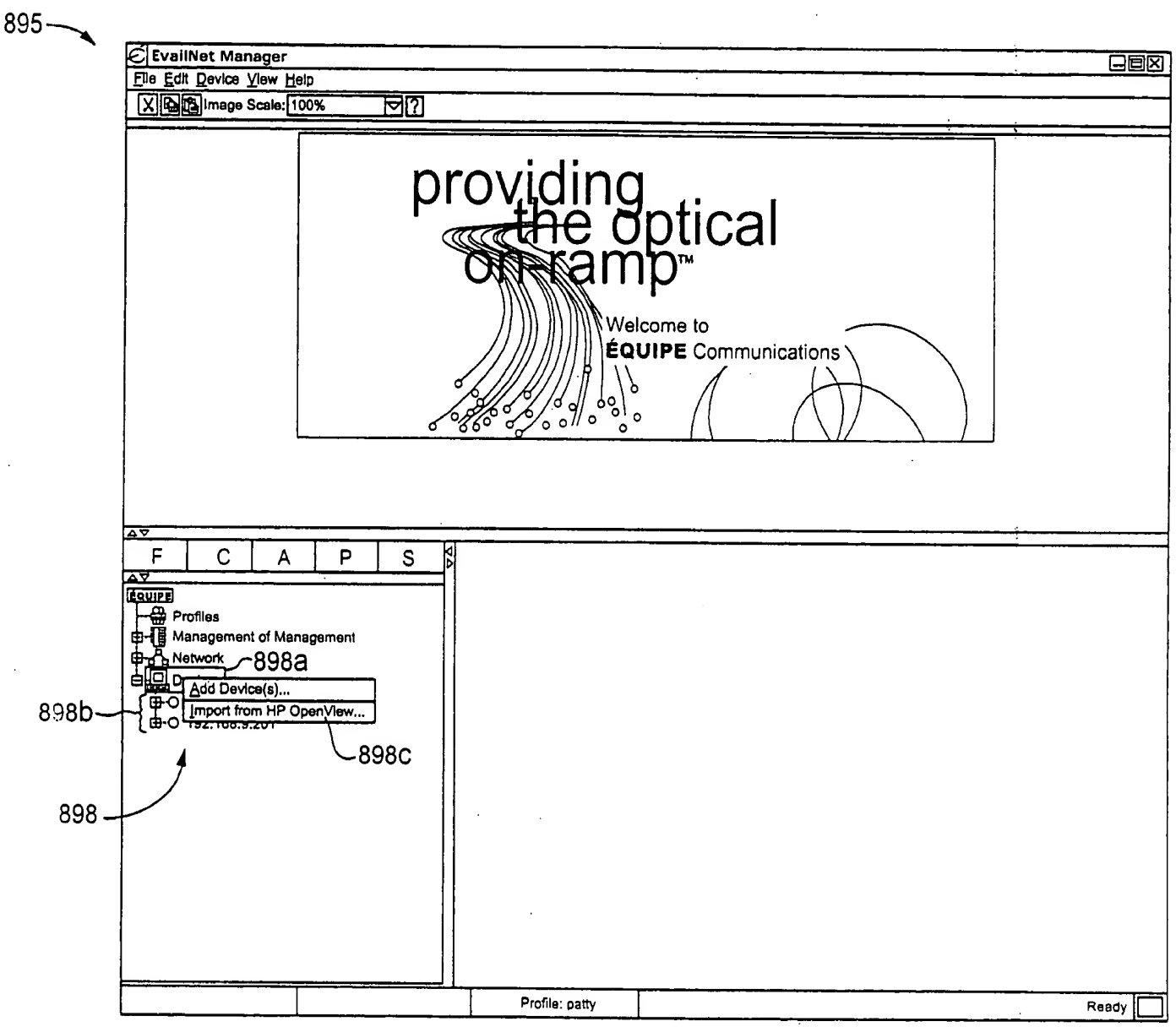

895
EvailNet Manager
File Edit Device View Help
Image Scale: 100%
providing the optical on-ramp™
Welcome to
ÉQUIPE Communications
F
C
A
P
S
ÉQUIPE
Profiles
Management of Management
Network
898a
Add Device(s)...
Import from HP OpenView...
898b
898c
898
Profile: patty
Ready

FIG. 4B

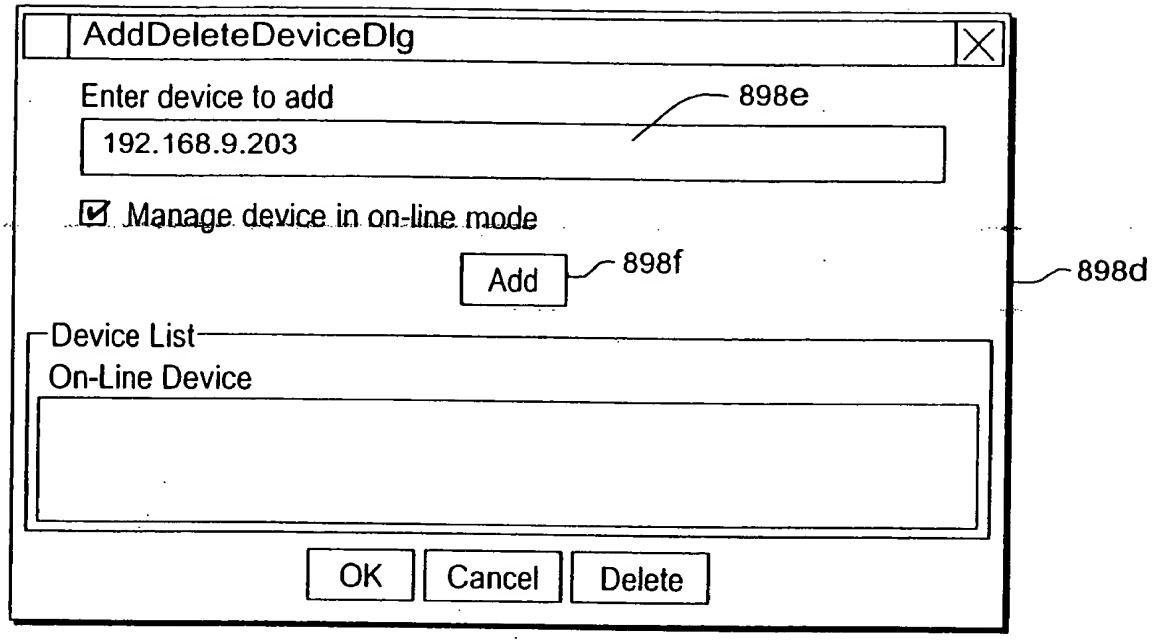

AddDeleteDeviceDlg
Enter device to add
898e
192.168.9.203
Manage device in on-line mode
Add
898f
898d
Device List
On-Line Device
OK
Cancel
Delete

FIG. 4C

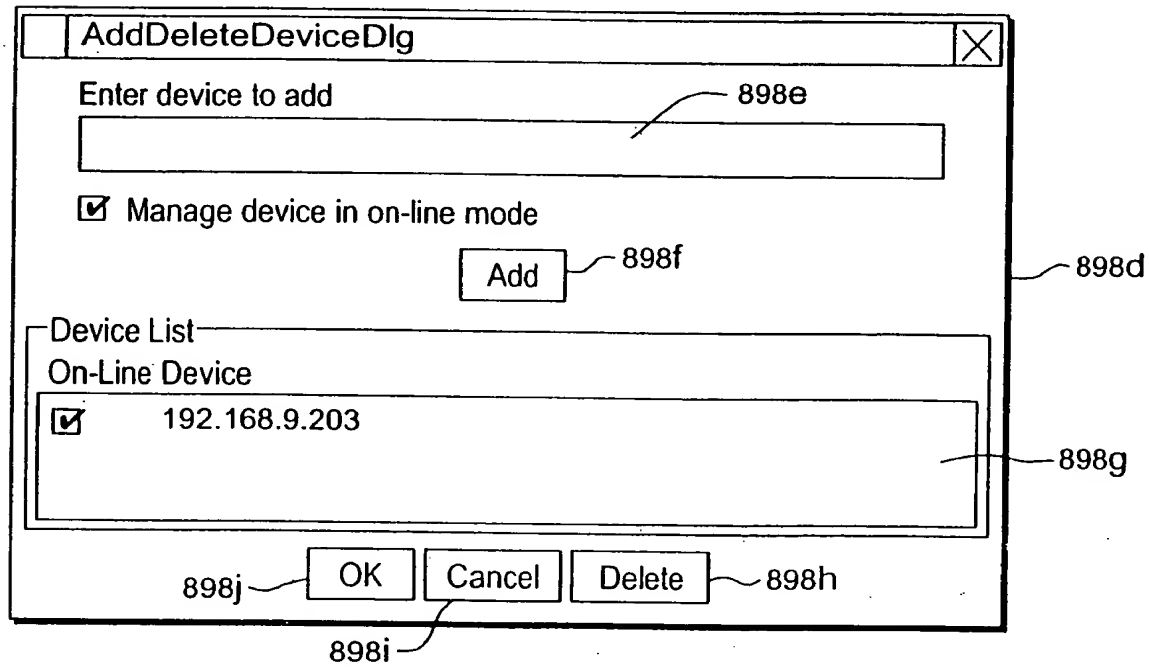

AddDeleteDeviceDlg
Enter device to add
898e
Manage device in on-line mode
Add
898f
898d
Device List
On-Line Device
192.168.9.203
898g
898j
OK
Cancel
Delete
898h
898i

FIG. 4D

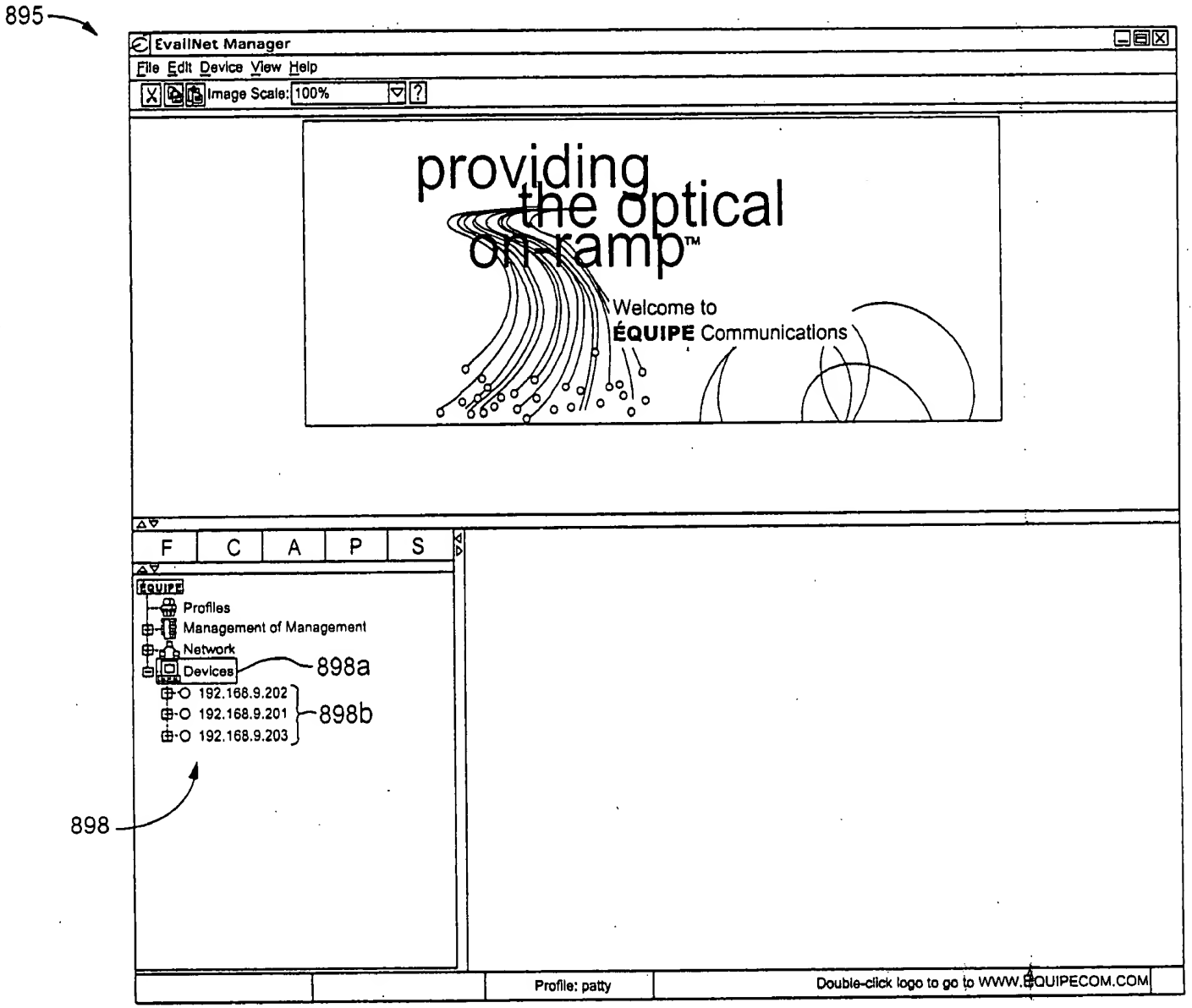

895
EvalNet Manager
File Edit Device View Help
Image Scale: 100%
providing the optical on-ramp™
Welcome to
ÉQUIPE Communications
F
C
A
P
S
ÉQUIPE
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.201
192.168.9.203
898b
898
Profile: patty
Double-click logo to go to WWW.ÉQUIPECOM.COM

FIG. 4E

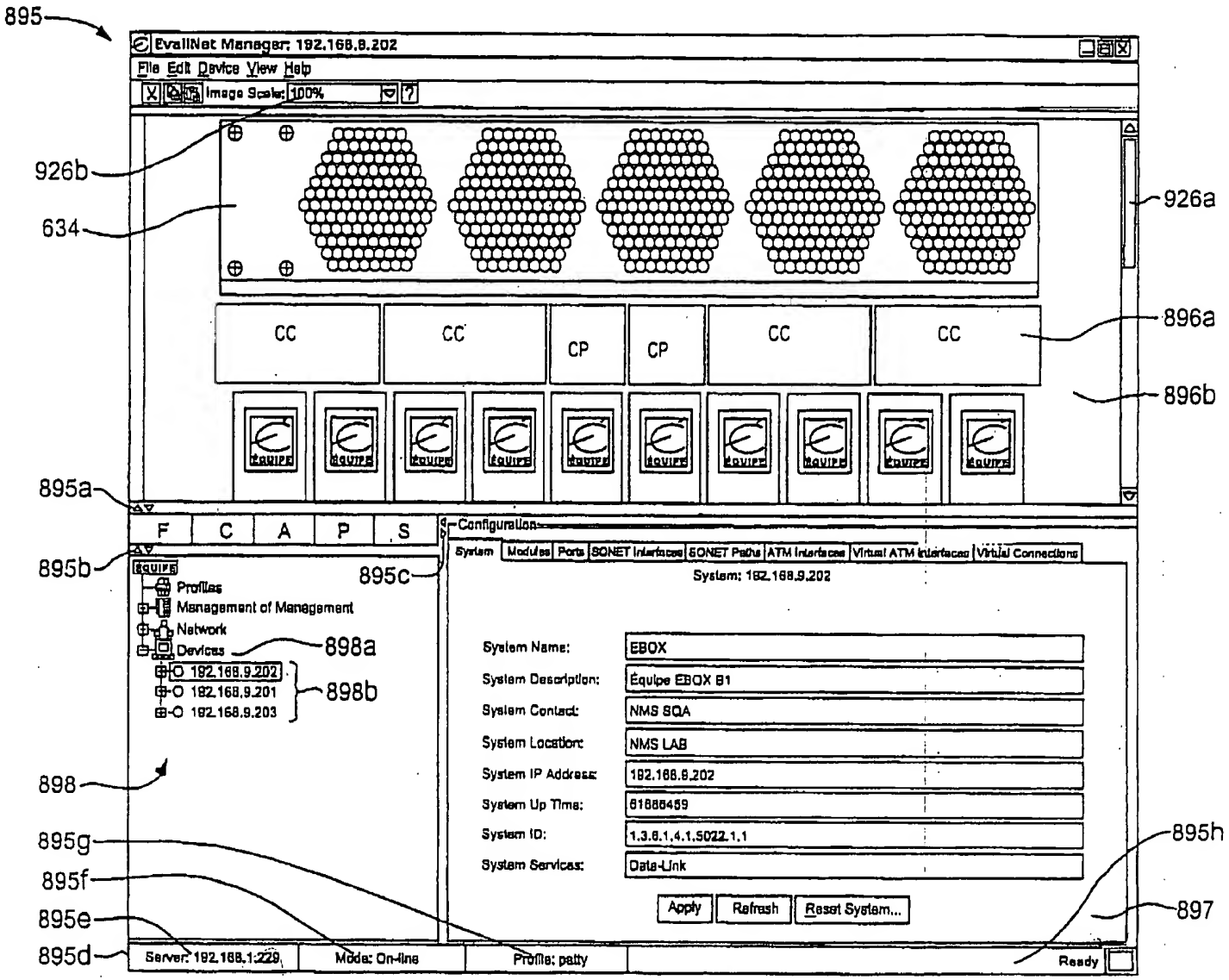

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
926b
634
926a
CC
CC
CP
CP
CC
CC
896a
896b
895a
F
C
A
P
S
895b
895c
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.201
192.168.9.203
898b
898
System Name:
EBOX
System Description:
Equipe EBOX B1
System Contact:
NMS SQA
System Location:
NMS LAB
System IP Address:
192.168.9.202
System Up Time:
61888459
System ID:
1.3.6.1.4.1.5022.1.1
System Services:
Data-Link
Apply
Refresh
Reset System...
895g
895f
895e
895d
895h
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4F

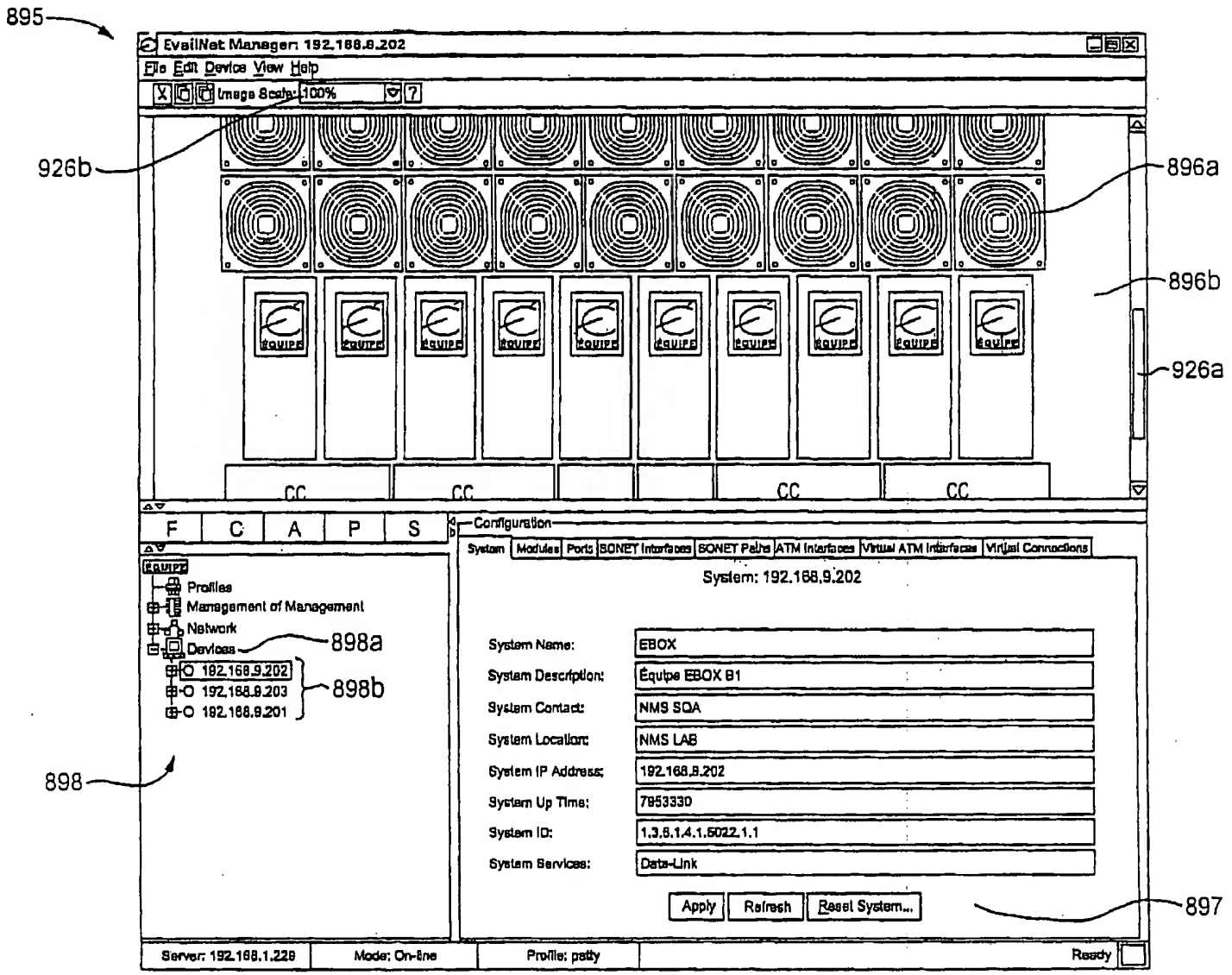

895
EvailNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
926b
896a
896b
926a
EQUIPE
CC
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.203
192.168.9.201
898b
898
System: 192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SOA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
897
Server: 192.168.1.228
Mode: On-line
Profile: patty
Ready

FIG. 4G

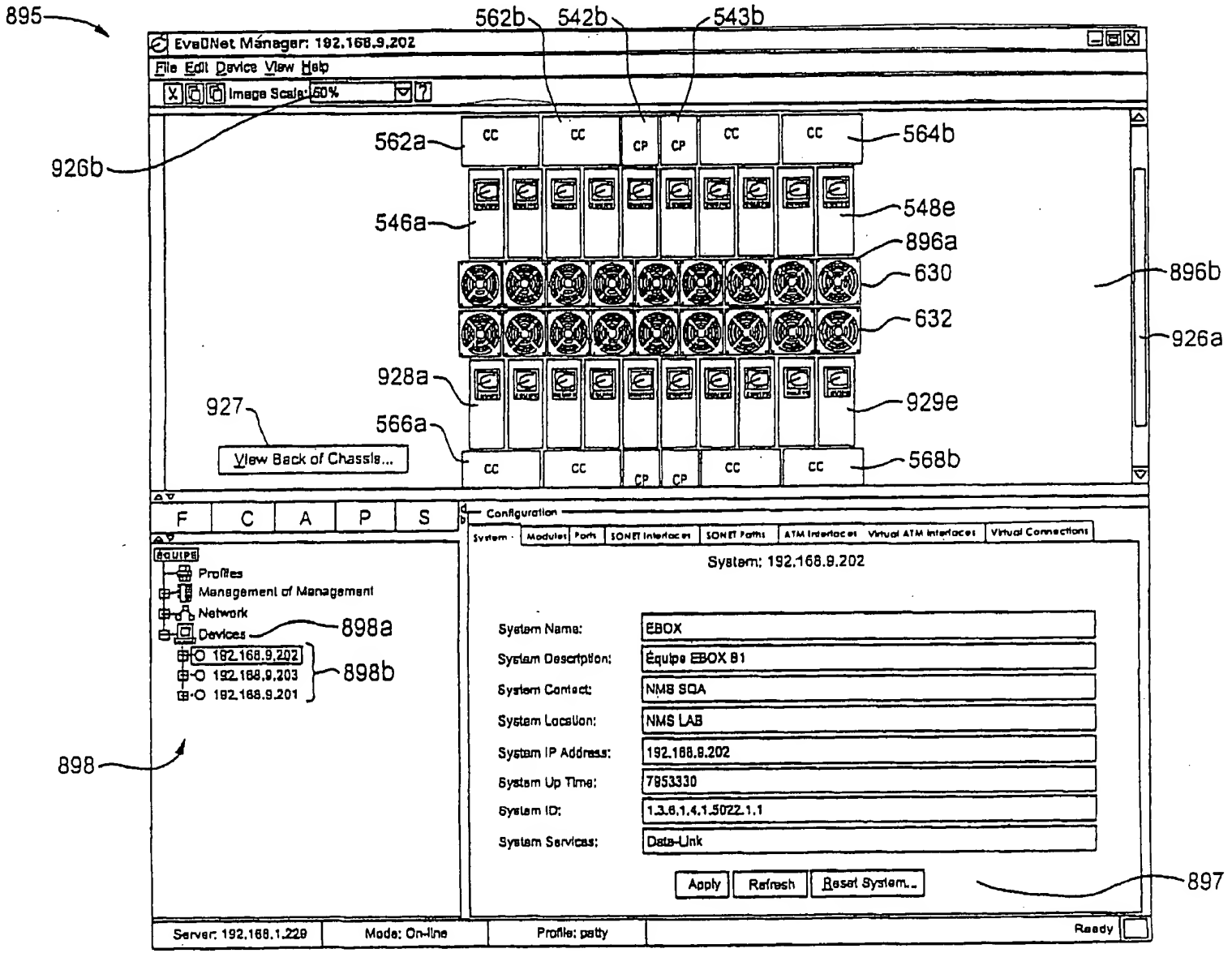

895
562b
542b
543b
EvaNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 50%
926b
562a
564b
546a
548e
896a
630
896b
632
926a
928a
927
929e
566a
View Back of Chassis...
568b
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
EQUIPE
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.203
192.168.9.201
898b
898
System: 192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4H

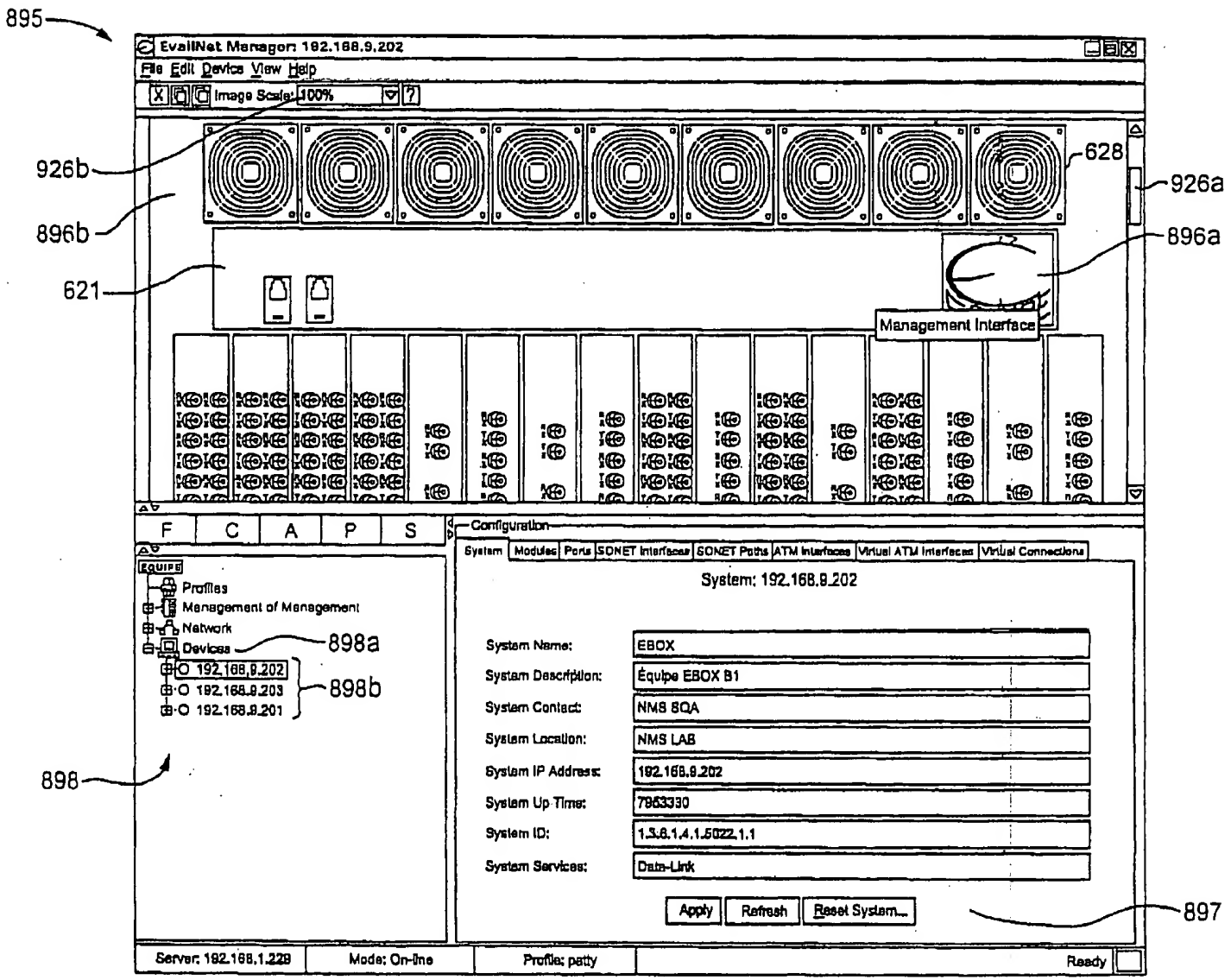

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
926b
896b
621
628
926a
896a
Management Interface
F
C
A
P
S
EQUIPE
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.203
192.168.9.201
898b
898
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
System Name:
EBOX
System Description:
Équipe EBOX B1
System Contact:
NMS SQA
System Location:
NMS LAB
System IP Address:
192.168.9.202
System Up Time:
7853330
System ID:
1.3.6.1.4.1.5022.1.1
System Services:
Data-Link
Apply
Refresh
Reset System...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4I

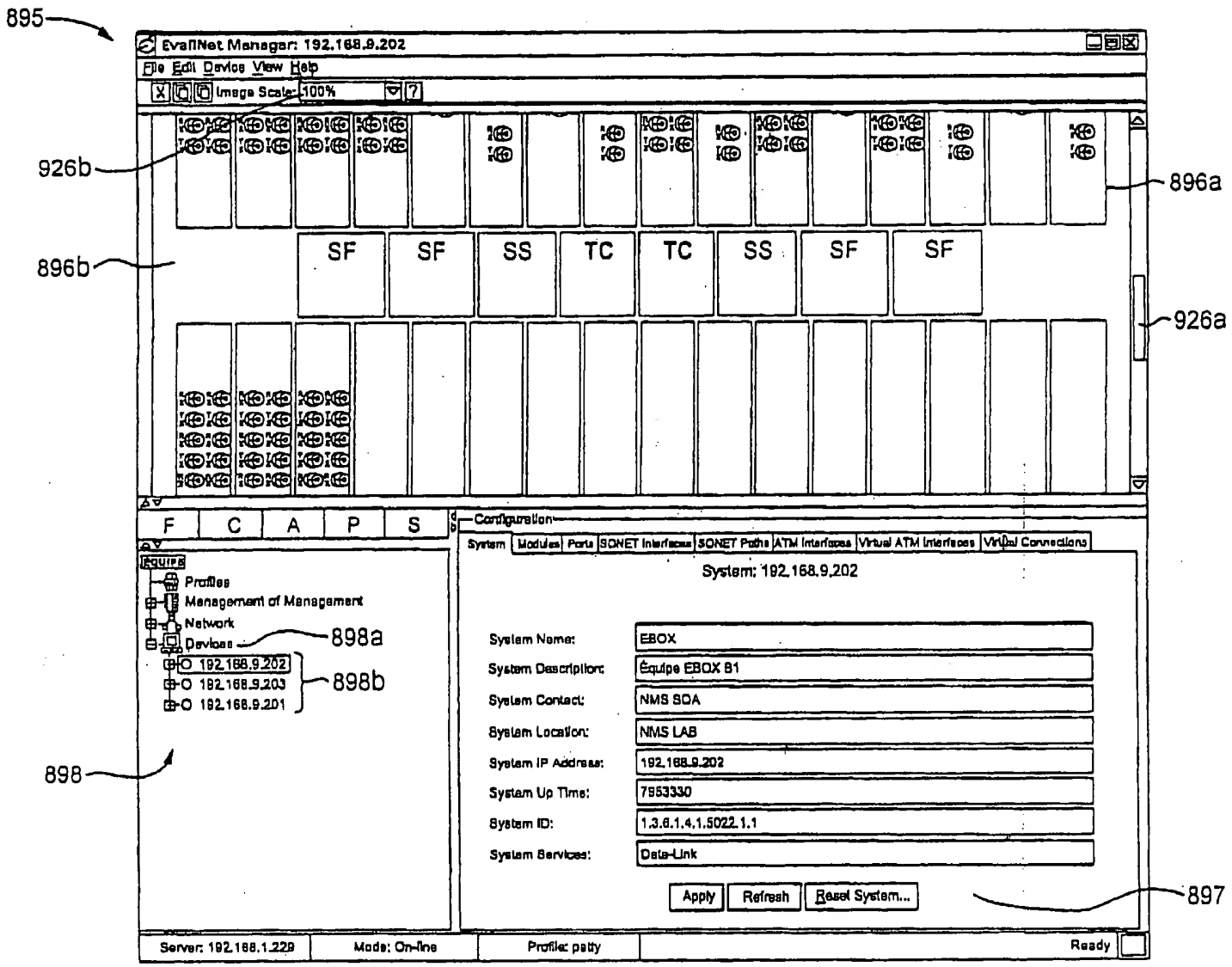

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
926b
896a
896b
SF
SF
SS
TC
TC
SS
SF
SF
926a
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
EQUIPE
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.203
192.168.9.201
898b
898
System: 192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SOA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4J

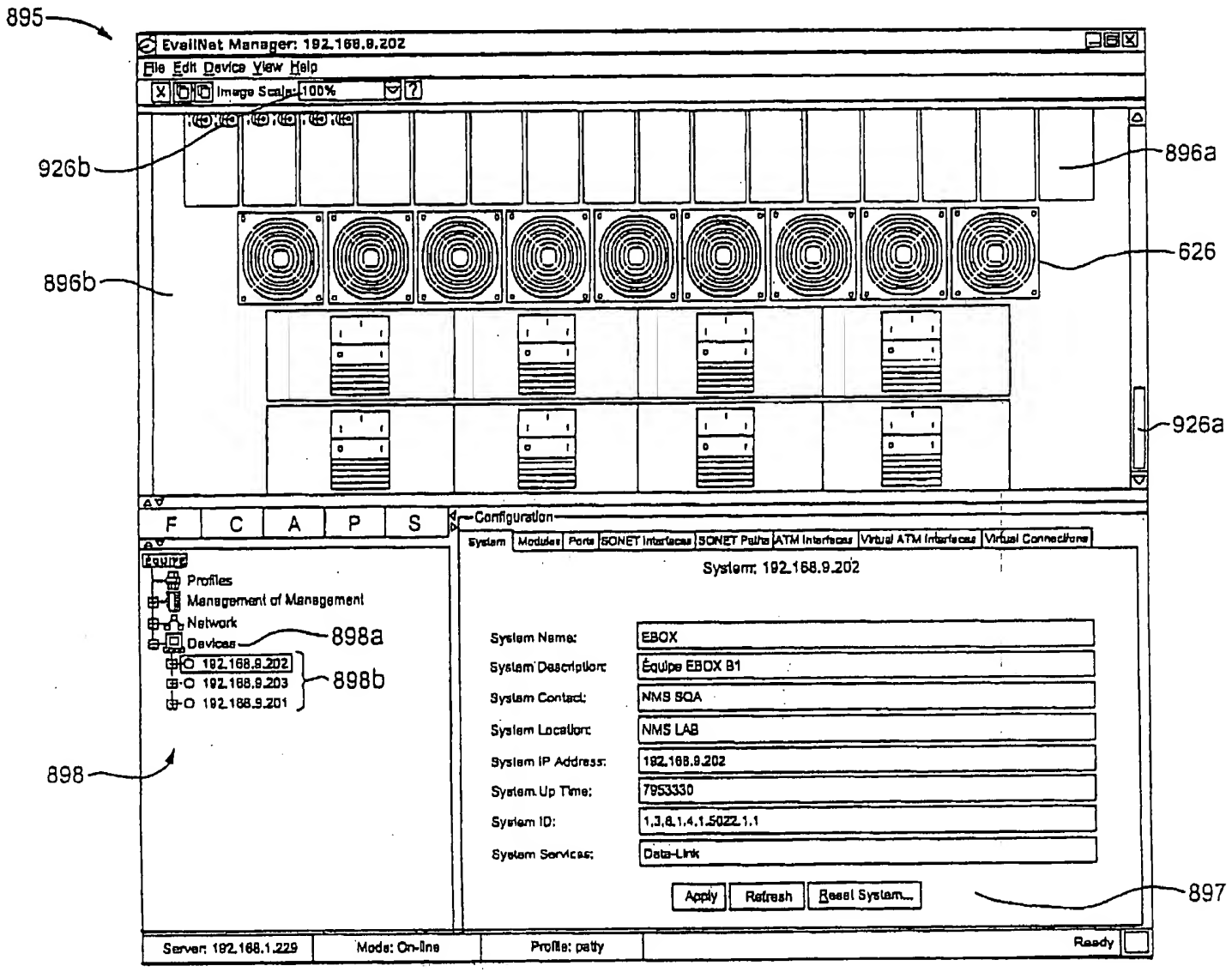

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
926b
896a
896b
626
926a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
Equipe
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.203
192.168.9.201
898b
898
System: 192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SOA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply Refresh Reset System...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4K

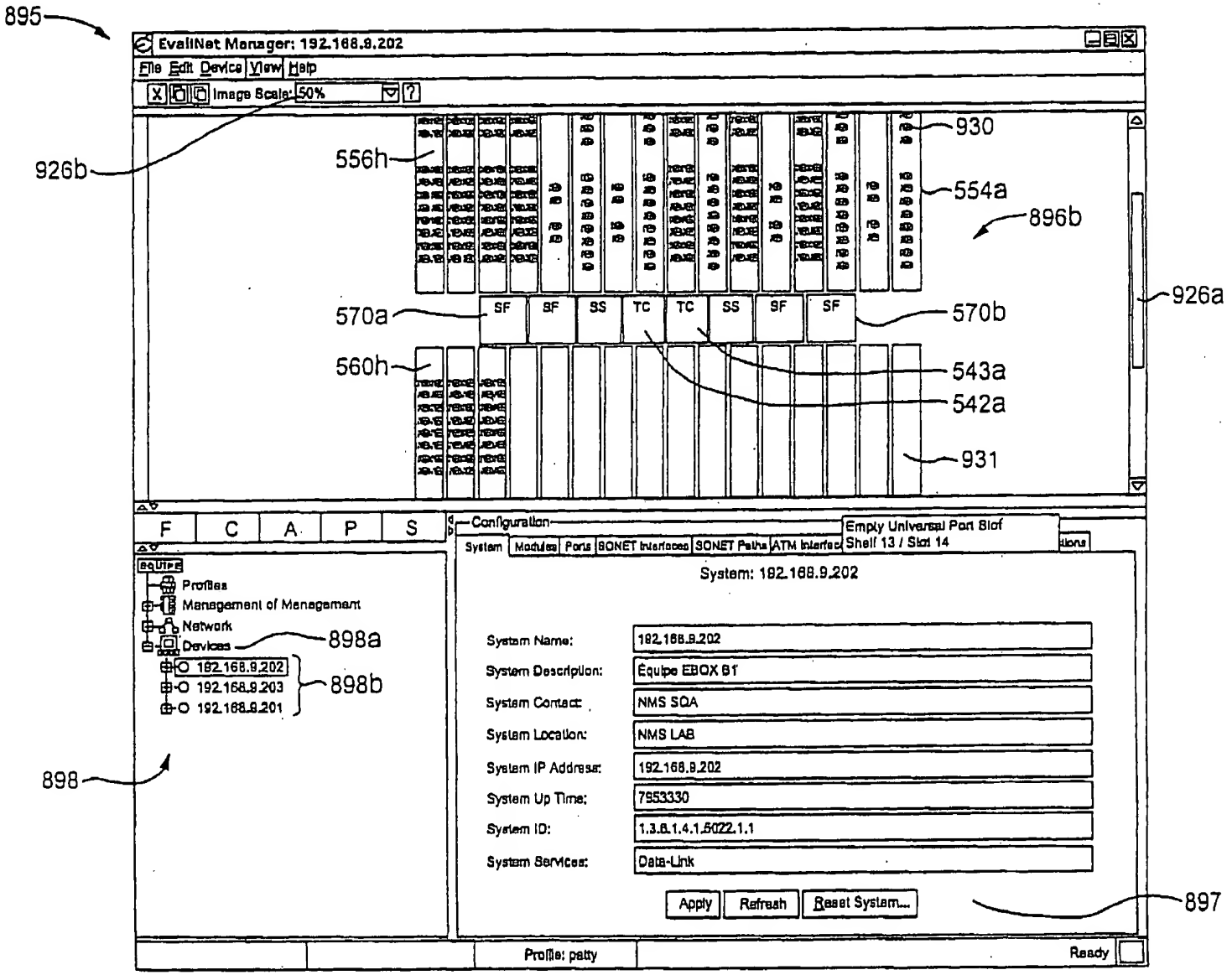

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 50%
926b
556h
930
554a
896b
926a
570a
SF
SF
SS
TC
TC
SS
SF
SF
570b
560h
543a
542a
931
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Empty Universal Port Slot
Shelf 13 / Slot 14
EQUIPE
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.203
192.168.9.201
898b
898
System: 192.168.9.202
System Name: 192.168.9.202
System Description: Equipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
897
Profile: patty
Ready

FIG. 4L

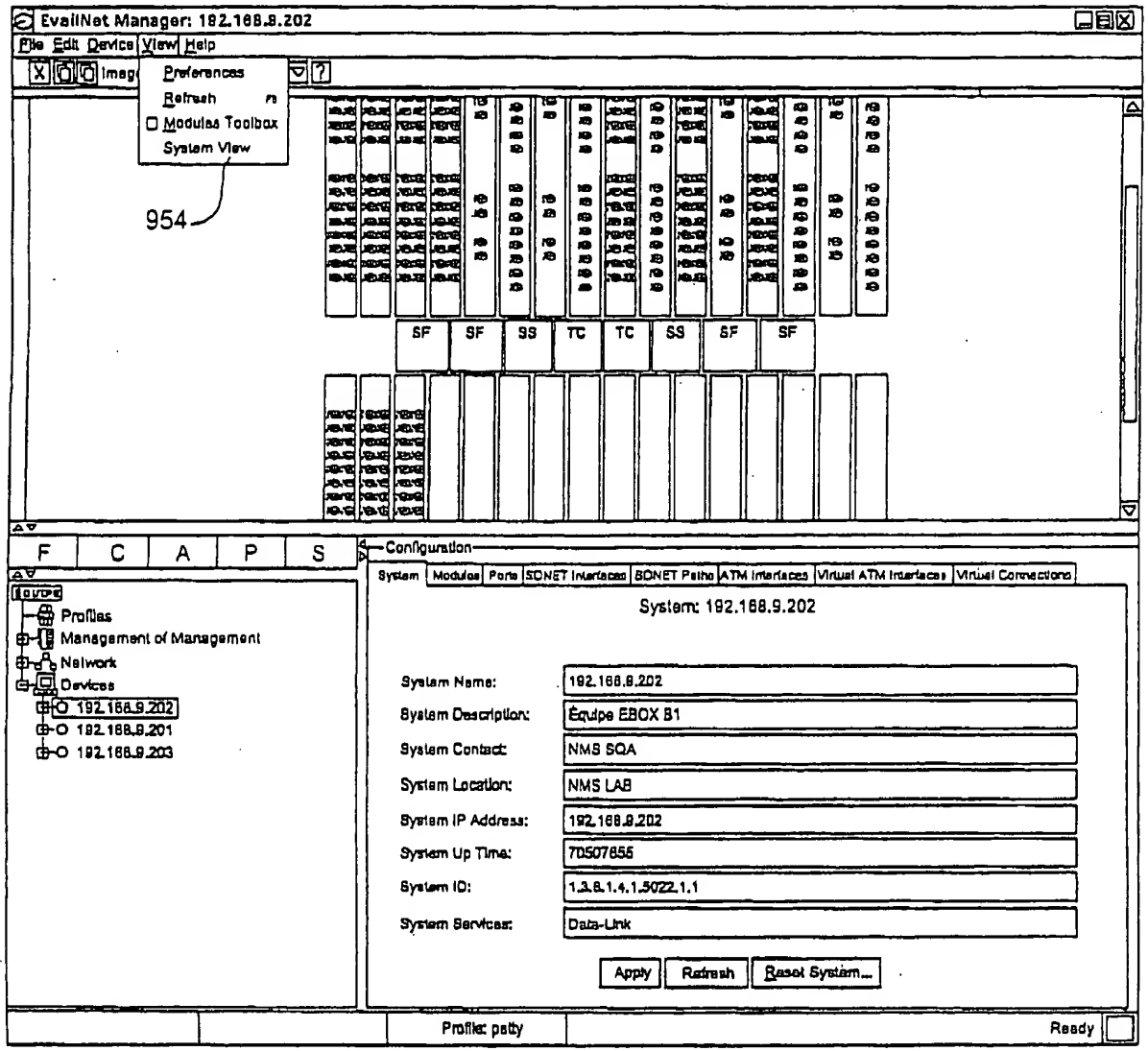

EvalNet Manager: 192.168.9.202
File Edit Device View Help
Preferences
Refresh
Modules Toolbox
System View
954
SF
SF
SS
TC
TC
SS
SF
SF
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
192.168.9.203
System Name:
192.168.9.202
System Description:
Équipe EBOX B1
System Contact:
NMS SQA
System Location:
NMS LAB
System IP Address:
192.168.9.202
System Up Time:
70507655
System ID:
1.3.6.1.4.1.5022.1.1
System Services:
Data-Link
Apply
Refresh
Reset System...
Profile: patty
Ready

FIG. 4M

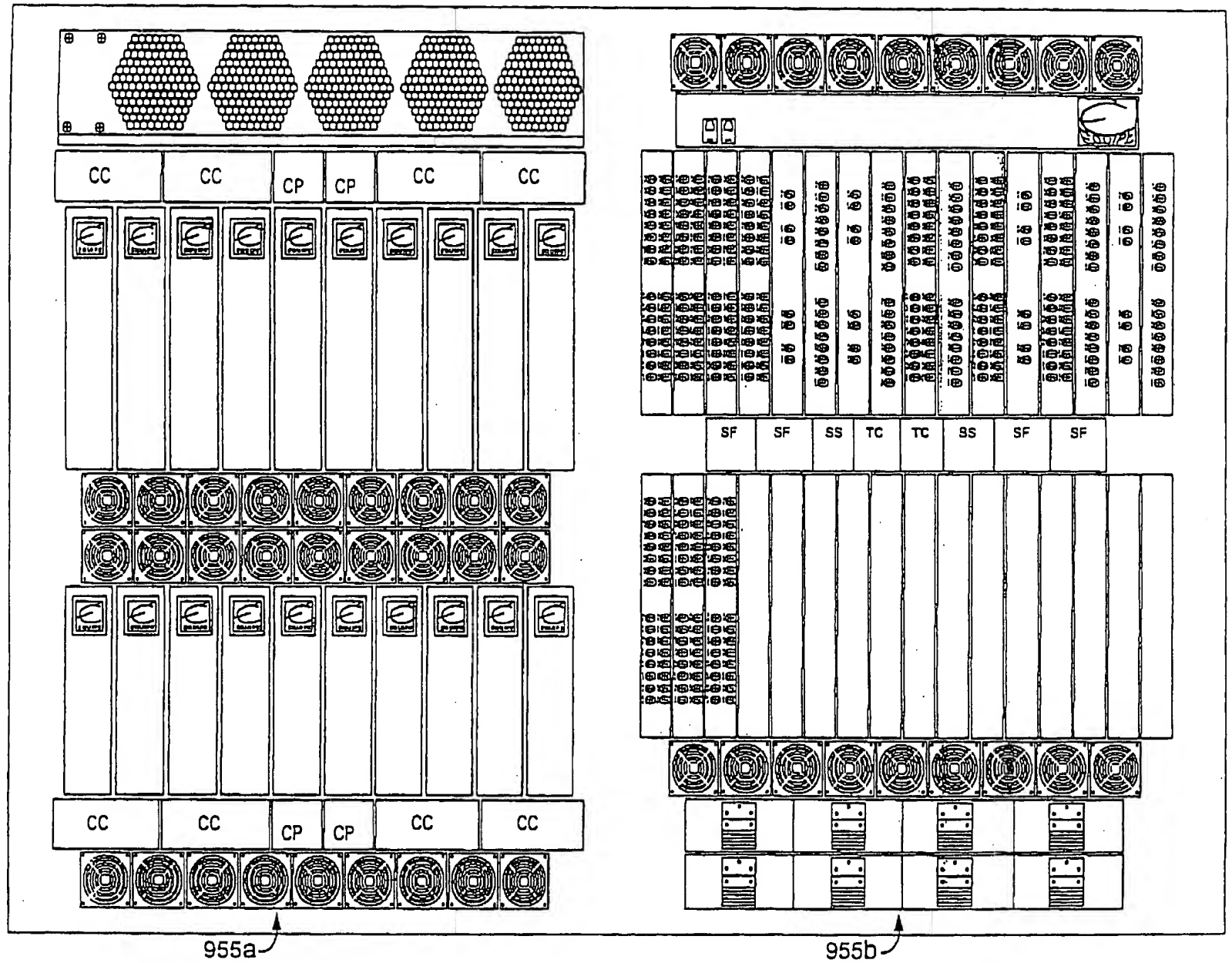

955
CC
CC
CP
CP
CC
CC
SF
SF
SS
TC
TC
SS
SF
SF
CC
CC
CP
CP
CC
CC
955a
955b

FIG. 4N

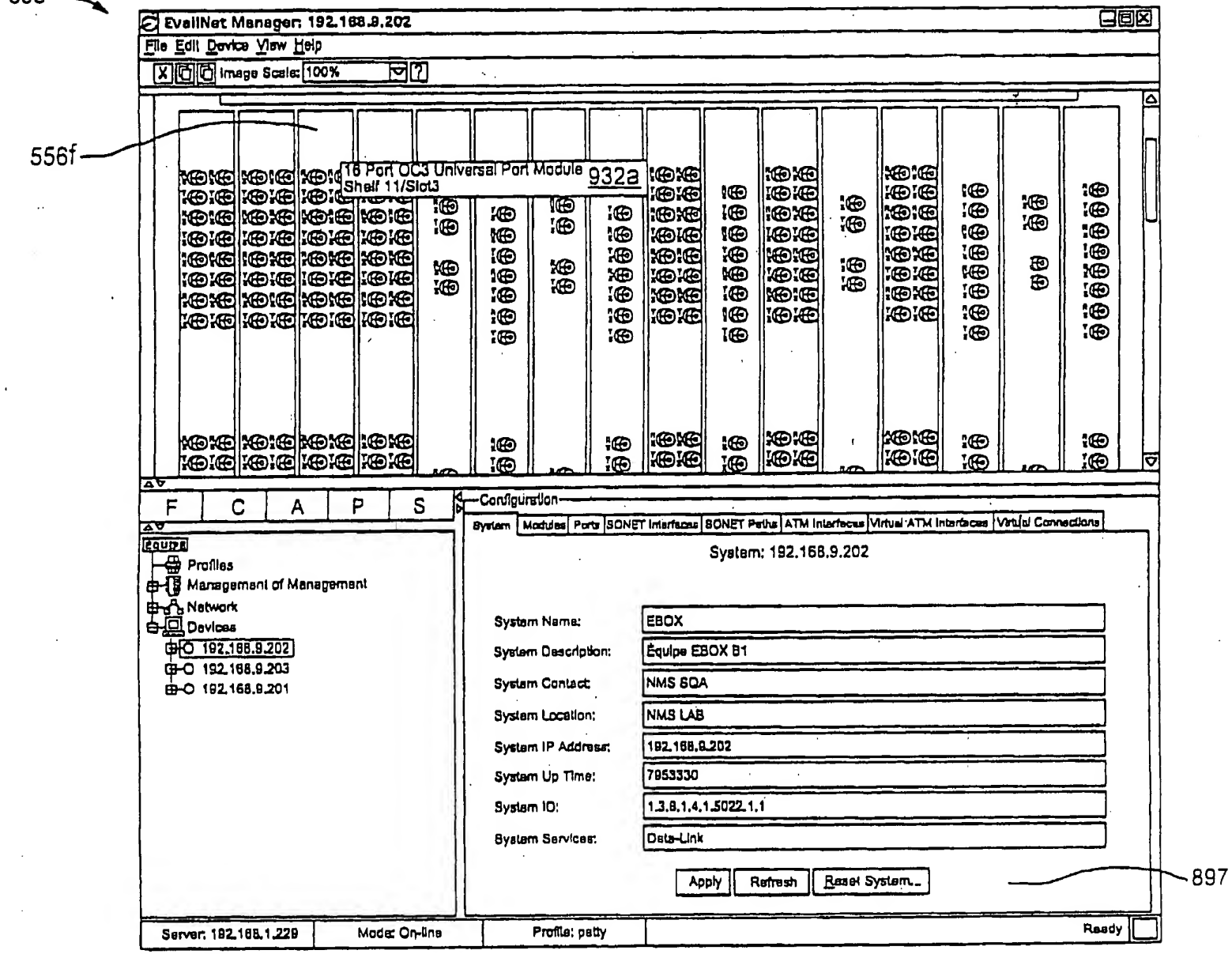

895
556f
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
16 Port OC3 Universal Port Module
Shelf 11/Slot3
932a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
Equipe
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
System: 192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System IO: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 40

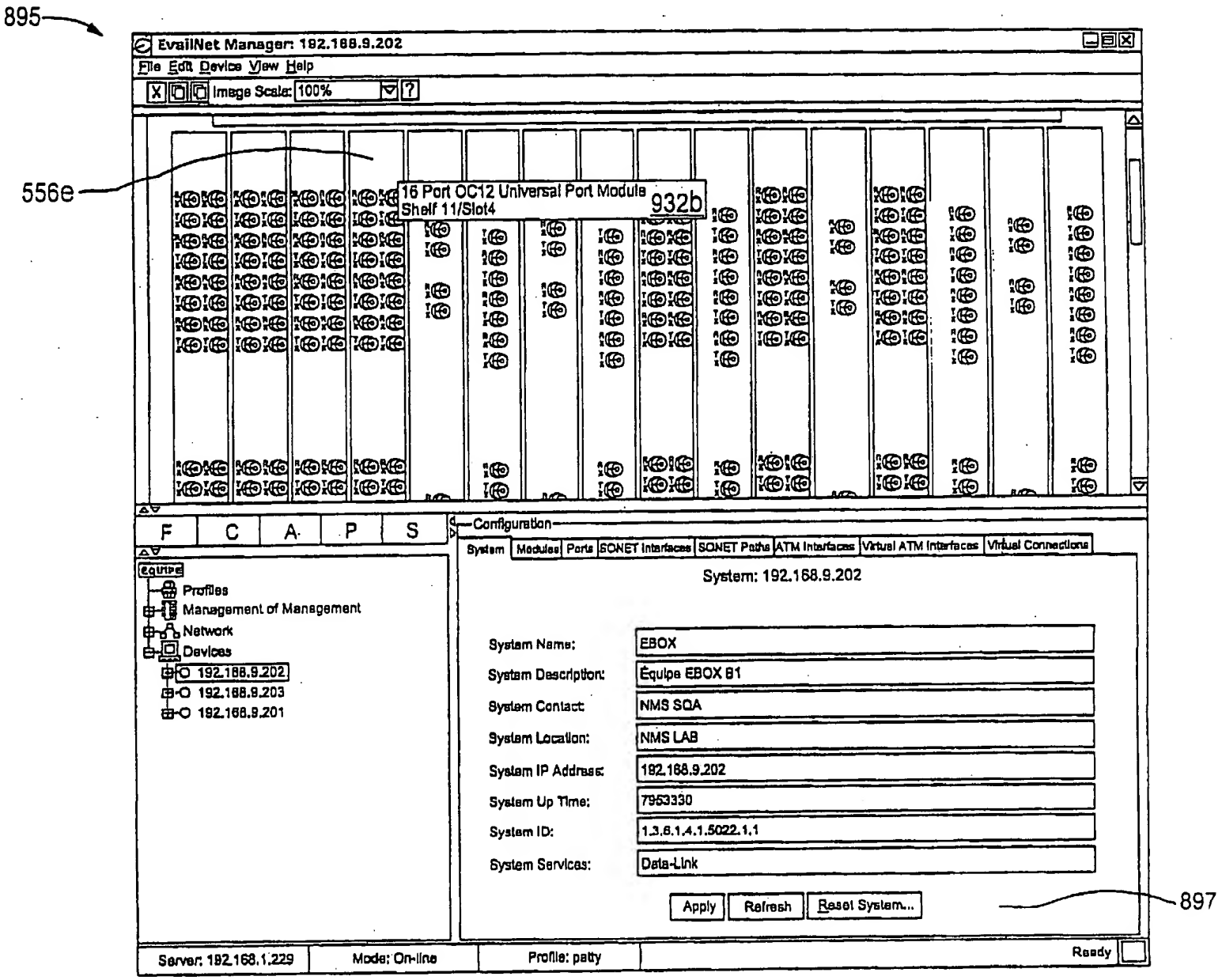

895
EvailNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
556e
16 Port OC12 Universal Port Module
Shelf 11/Slot4
932b
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
Equipe
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
System: 192.168.9.202
System Name:
EBOX
System Description:
Equipe EBOX 81
System Contact:
NMS SQA
System Location:
NMS LAB
System IP Address:
192.168.9.202
System Up Time:
7953330
System ID:
1.3.6.1.4.1.5022.1.1
System Services:
Data-Link
Apply
Refresh
Reset System...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4P

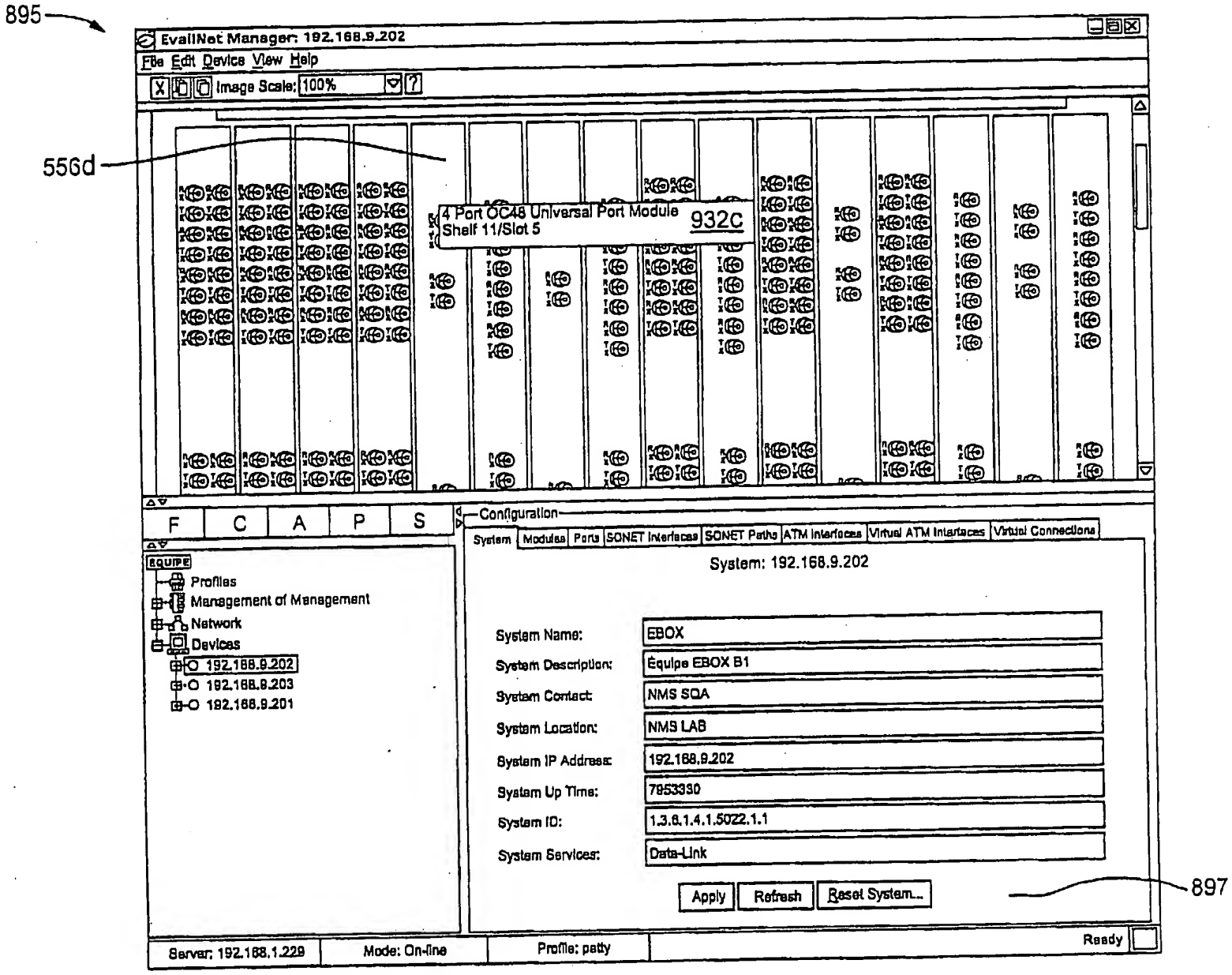

895
556d
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
4 Port OC48 Universal Port Module
Shelf 11/Slot 5
932c
F C A P S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
System Name: EBOX
System Description: Equipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply Refresh Reset System...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4Q

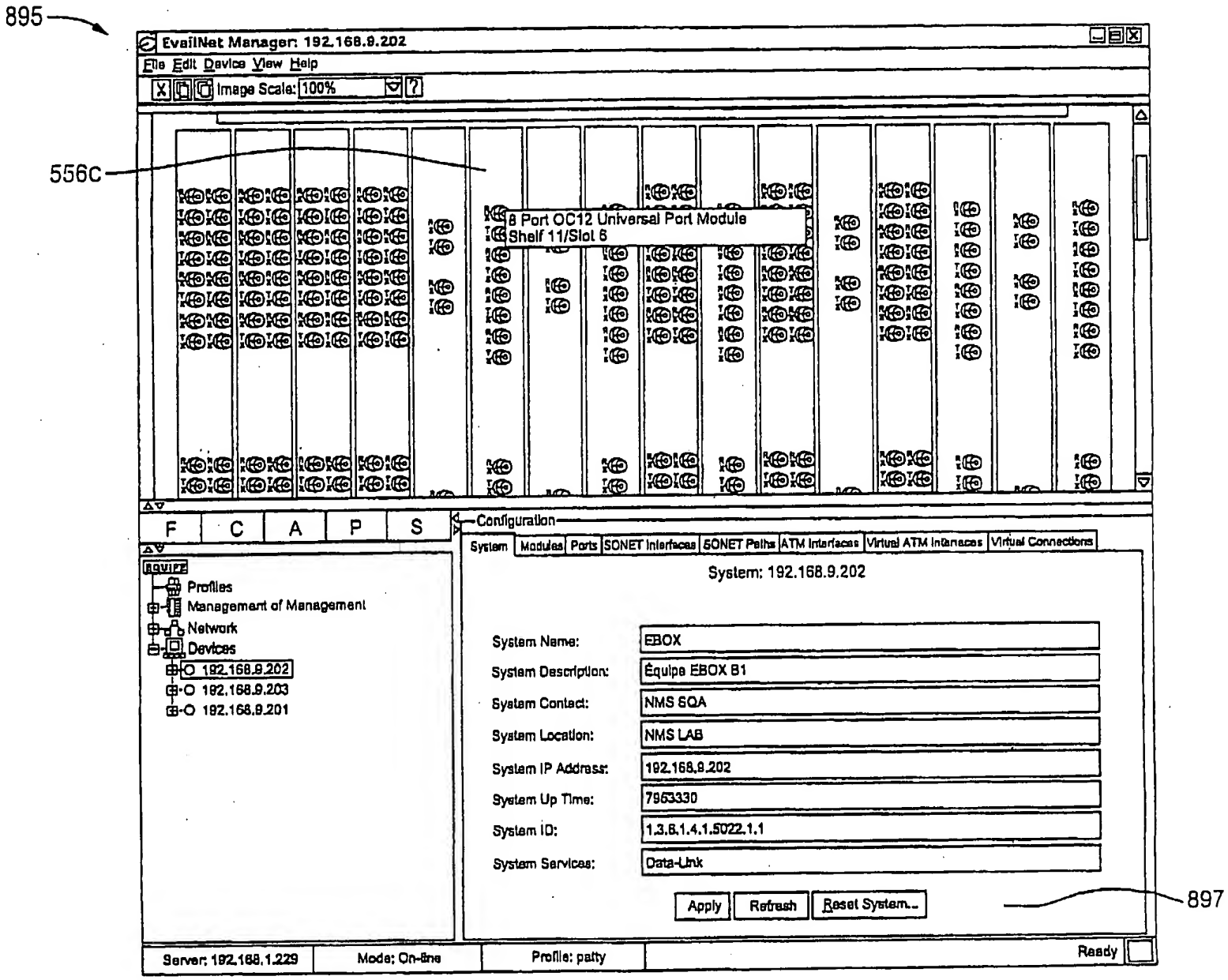

895
EvailNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
556c
8 Port OC12 Universal Port Module
Shelf 11/Slot 6
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
System: 192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4R

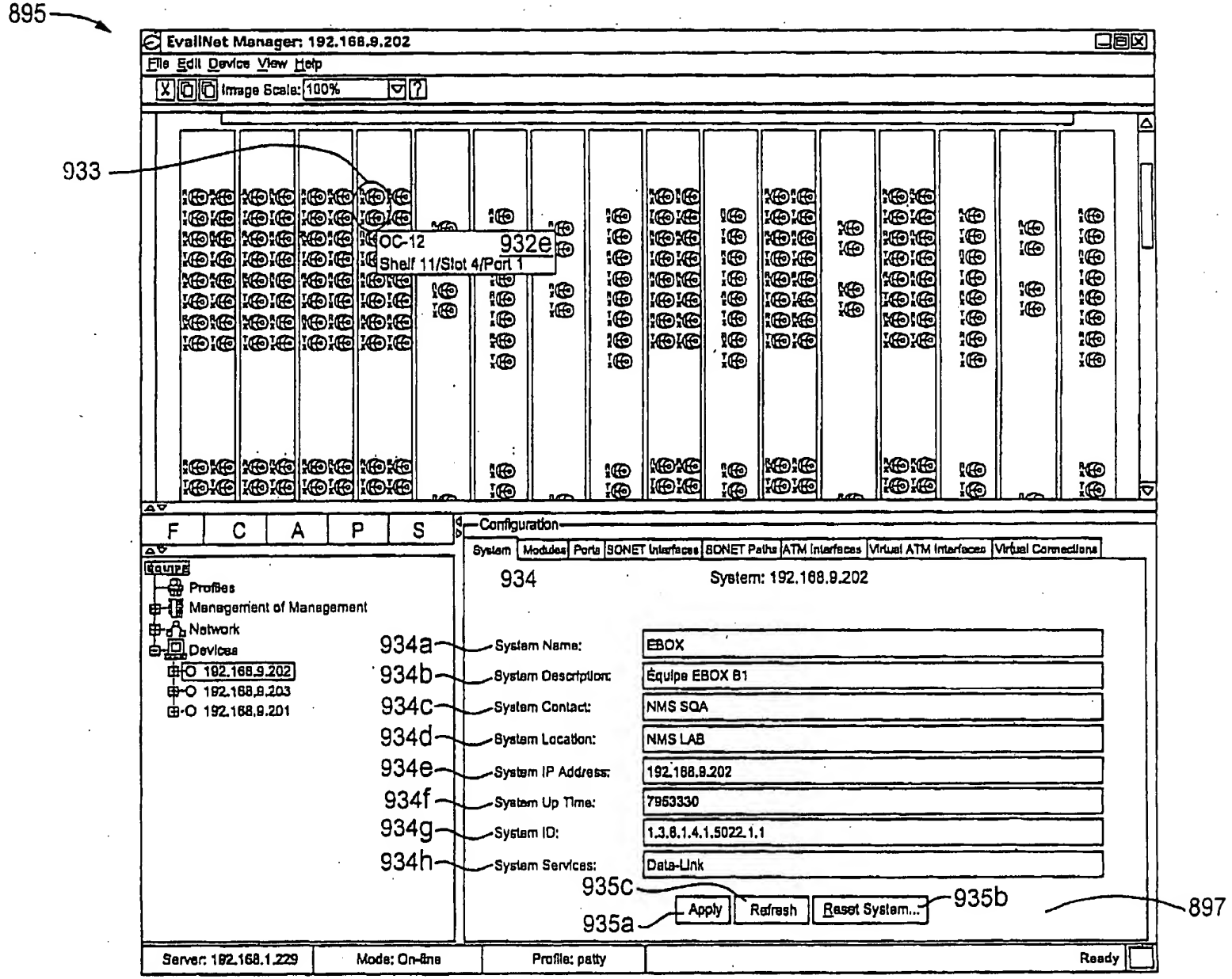

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
933
OC-12
932e
Shelf 11/Slot 4/Port 1
F C A P S
Equipe
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
934
System: 192.168.9.202
934a
System Name:
EBOX
934b
System Description:
Equipe EBOX B1
934c
System Contact:
NMS SQA
934d
System Location:
NMS LAB
934e
System IP Address:
192.168.9.202
934f
System Up Time:
7953330
934g
System ID:
1.3.6.1.4.1.5022.1.1
934h
System Services:
Data-Link
935c
935a
Apply
Refresh
Reset System...
935b
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4S

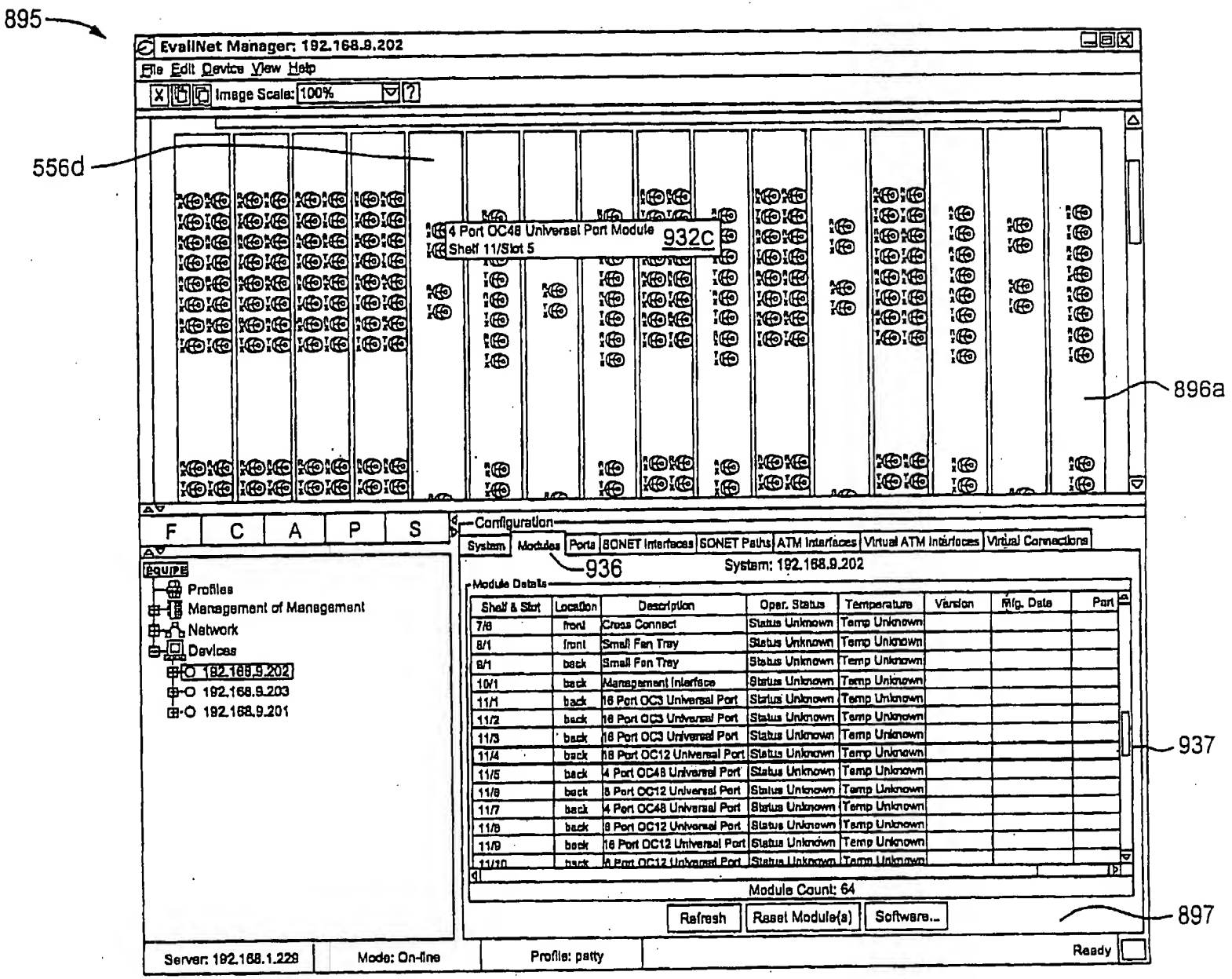

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
556d
4 Port OC48 Universal Port Module
Shelf 11/Slot 5
932c
896a
F C A P S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
936
System: 192.168.9.202
Module Details
Shelf & Slot | Location | Description | Oper. Status | Temperature | Version | Mfg. Date | Part
7/8 front Cross Connect Status Unknown Temp Unknown
8/1 front Small Fan Tray Status Unknown Temp Unknown
8/1 back Small Fan Tray Status Unknown Temp Unknown
10/1 back Management Interface Status Unknown Temp Unknown
11/1 back 16 Port OC3 Universal Port Status Unknown Temp Unknown
11/2 back 16 Port OC3 Universal Port Status Unknown Temp Unknown
11/3 back 16 Port OC3 Universal Port Status Unknown Temp Unknown
11/4 back 16 Port OC12 Universal Port Status Unknown Temp Unknown
11/5 back 4 Port OC48 Universal Port Status Unknown Temp Unknown
11/6 back 8 Port OC12 Universal Port Status Unknown Temp Unknown
11/7 back 4 Port OC48 Universal Port Status Unknown Temp Unknown
11/8 back 8 Port OC12 Universal Port Status Unknown Temp Unknown
11/9 back 16 Port OC12 Universal Port Status Unknown Temp Unknown
11/10 back 8 Port OC12 Universal Port Status Unknown Temp Unknown
Module Count: 64
937
Refresh
Reset Module(s)
Software...
897
Server: 192.168.1.228
Mode: On-line
Profile: patty
Ready

FIG. 4T

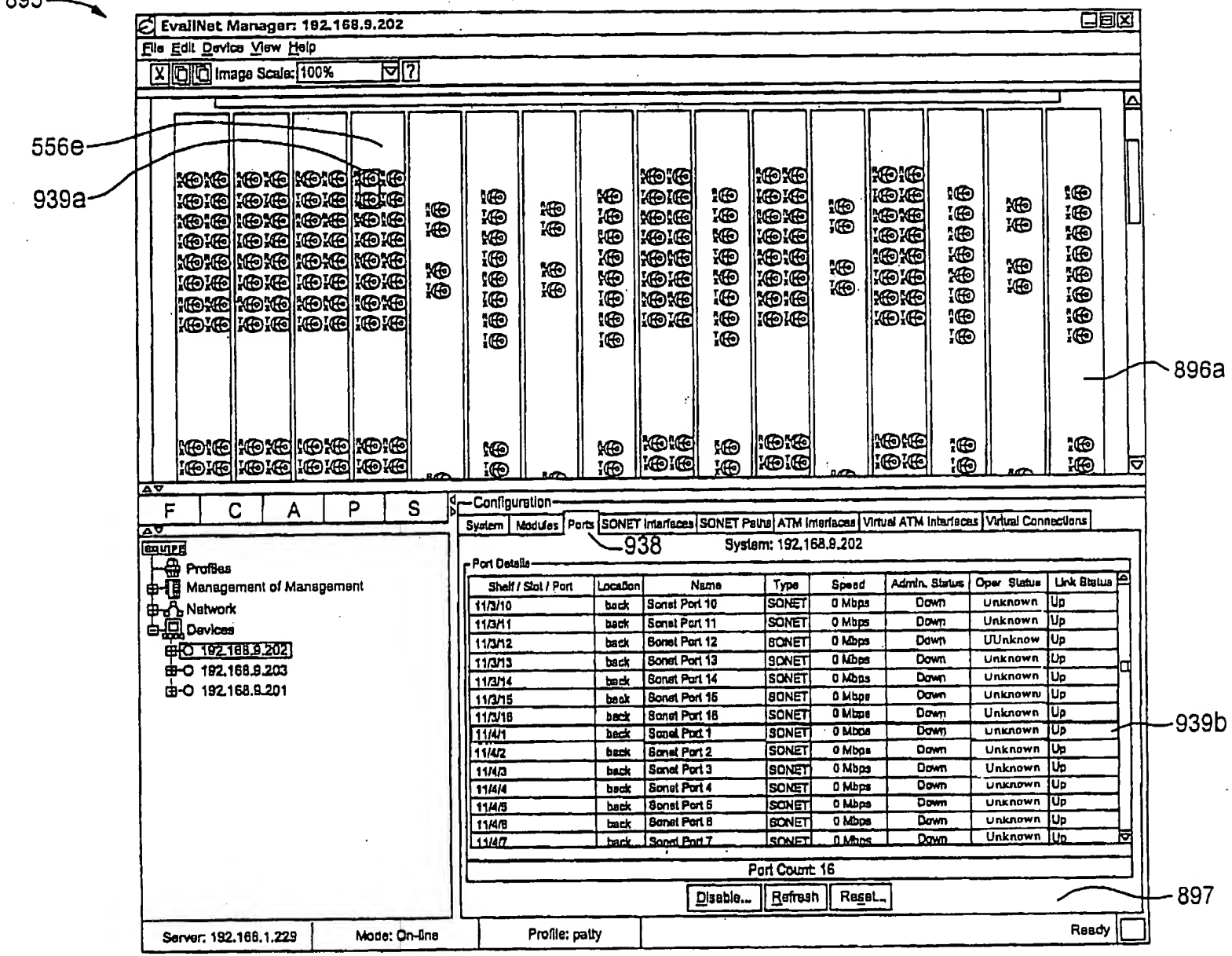

895
EvalINet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
556e
939a
896a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
938
System: 192.168.9.202
Port Details
Shelf / Slot / Port | Location | Name | Type | Speed | Admin. Status | Oper Status | Link Status
11/3/10 back Sonet Port 10 SONET 0 Mbps Down Unknown Up
11/3/11 back Sonet Port 11 SONET 0 Mbps Down Unknown Up
11/3/12 back Sonet Port 12 SONET 0 Mbps Down UUnknow Up
11/3/13 back Sonet Port 13 SONET 0 Mbps Down Unknown Up
11/3/14 back Sonet Port 14 SONET 0 Mbps Down Unknown Up
11/3/15 back Sonet Port 15 SONET 0 Mbps Down Unknown Up
11/3/16 back Sonet Port 16 SONET 0 Mbps Down Unknown Up
11/4/1 back Sonet Port 1 SONET 0 Mbps Down Unknown Up
11/4/2 back Sonet Port 2 SONET 0 Mbps Down Unknown Up
11/4/3 back Sonet Port 3 SONET 0 Mbps Down Unknown Up
11/4/4 back Sonet Port 4 SONET 0 Mbps Down Unknown Up
11/4/5 back Sonet Port 5 SONET 0 Mbps Down Unknown Up
11/4/6 back Sonet Port 6 SONET 0 Mbps Down Unknown Up
11/4/7 back Sonet Port 7 SONET 0 Mbps Down Unknown Up
939b
Port Count: 16
Disable... Refresh Reset...
897
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4U

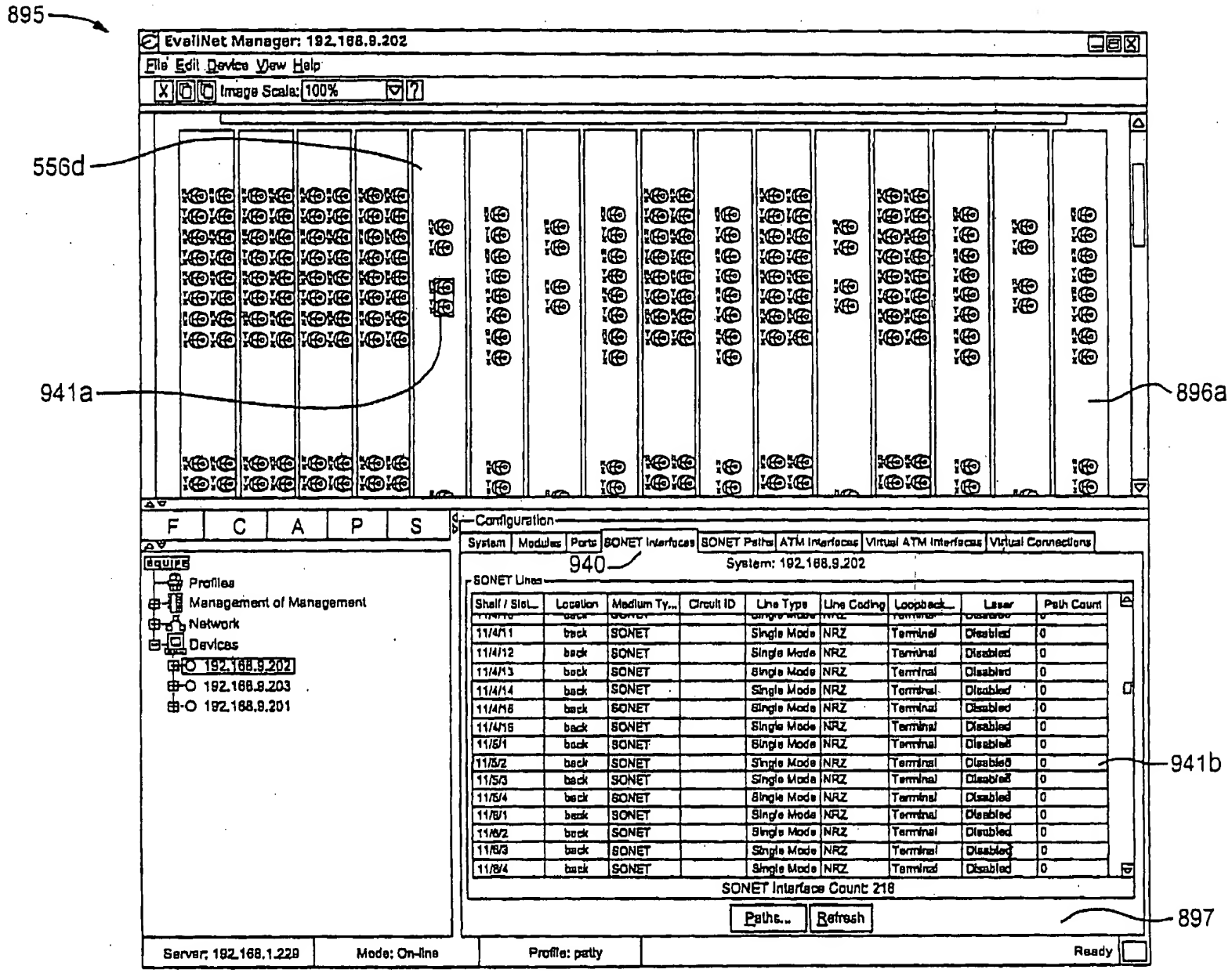

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
556d
941a
896a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
940
System: 192.168.9.202
equire
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
SONET Lines
Shelf / Slot Location Medium Ty... Circuit ID Line Type Line Coding Loopback Laser Path Count
11/4/11 back SONET Single Mode NRZ Terminal Disabled 0
11/4/12 back SONET Single Mode NRZ Terminal Disabled 0
11/4/13 back SONET Single Mode NRZ Terminal Disabled 0
11/4/14 back SONET Single Mode NRZ Terminal Disabled 0
11/4/15 back SONET Single Mode NRZ Terminal Disabled 0
11/4/16 back SONET Single Mode NRZ Terminal Disabled 0
11/5/1 back SONET Single Mode NRZ Terminal Disabled 0
11/5/2 back SONET Single Mode NRZ Terminal Disabled 0
11/5/3 back SONET Single Mode NRZ Terminal Disabled 0
11/5/4 back SONET Single Mode NRZ Terminal Disabled 0
11/6/1 back SONET Single Mode NRZ Terminal Disabled 0
11/6/2 back SONET Single Mode NRZ Terminal Disabled 0
11/6/3 back SONET Single Mode NRZ Terminal Disabled 0
11/6/4 back SONET Single Mode NRZ Terminal Disabled 0
941b
SONET Interface Count: 218
Paths... Refresh
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4V

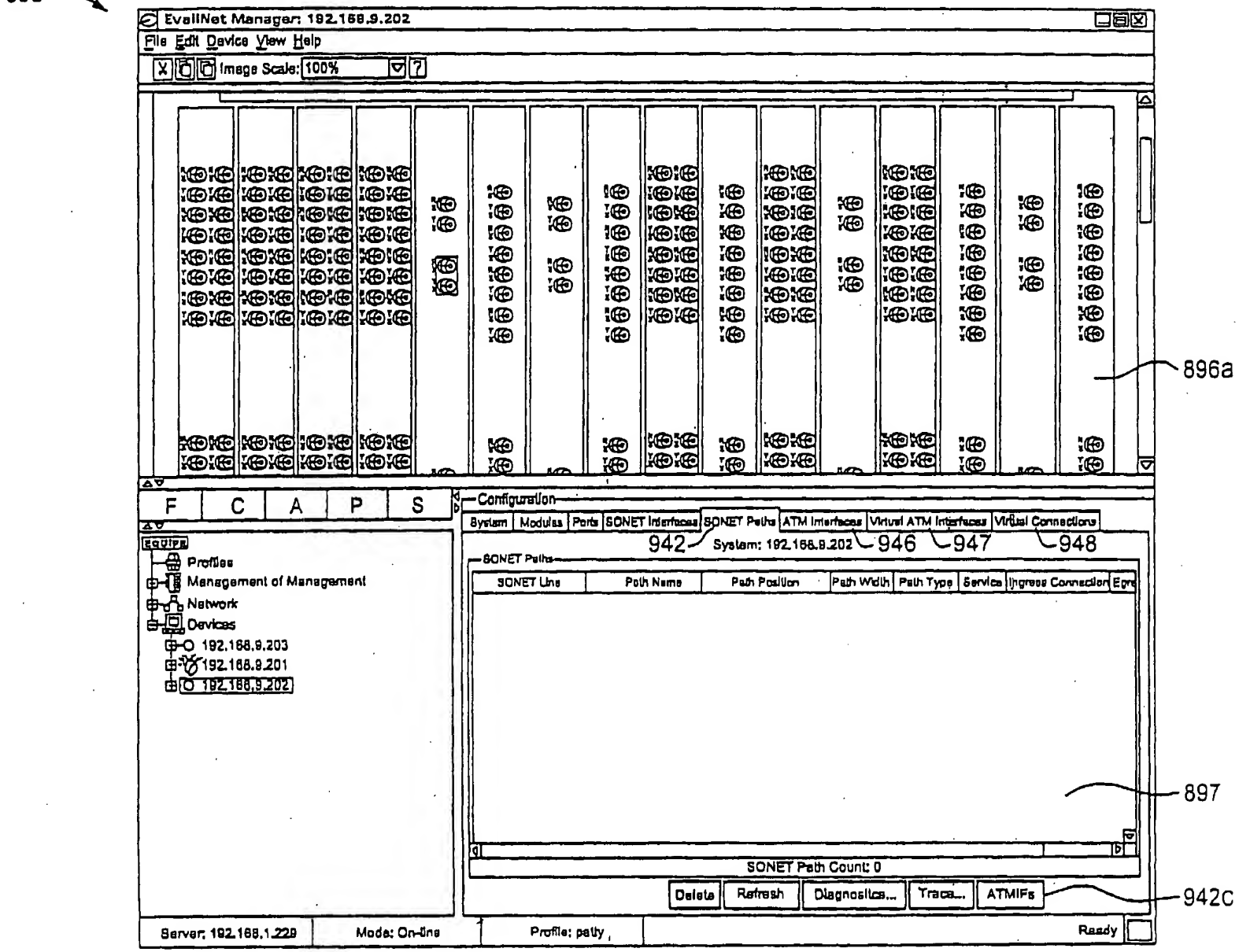

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
896a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
942
System: 192.168.9.202
946
947
948
Profiles
Management of Management
Network
Devices
192.168.9.203
192.168.9.201
192.168.9.202
SONET Paths
SONET Line
Path Name
Path Position
Path Width
Path Type
Service
Ingress Connection
897
SONET Path Count: 0
Delete
Refresh
Diagnostics...
Trace...
ATMIFs
942c
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4W

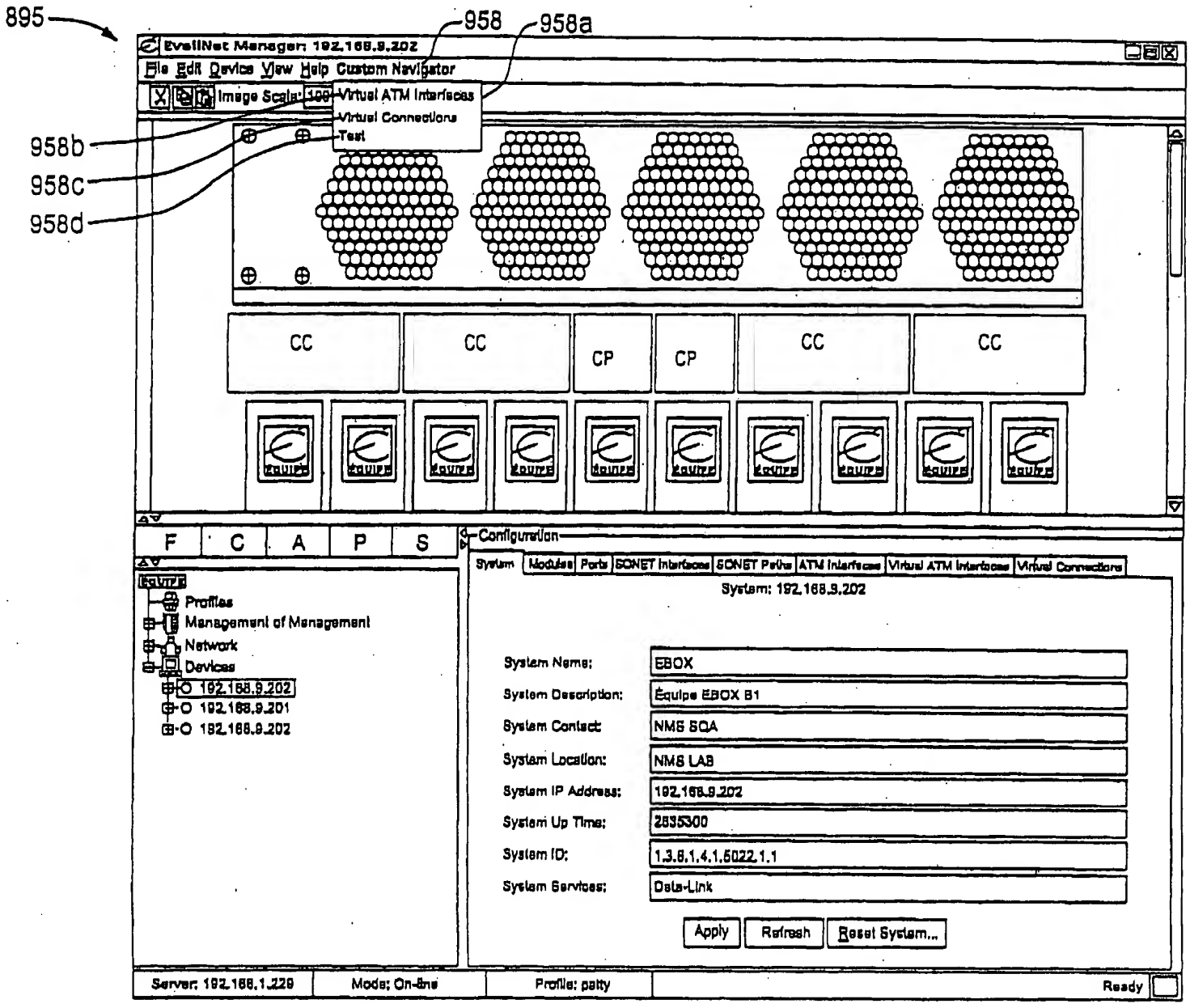

895
958
958a
958b
958c
958d
EvolNet Manager: 192.168.9.202
File Edit Device View Help Custom Navigator
Image Scale:
Virtual ATM Interfaces
Virtual Connections
Test
CC
CC
CP
CP
CC
CC
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
192.168.9.202
System Name:
EBOX
System Description:
Équipe EBOX B1
System Contact:
NMS SQA
System Location:
NMS LAB
System IP Address:
192.168.9.202
System Up Time:
2835300
System ID:
1.3.6.1.4.1.5022.1.1
System Services:
Data-Link
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4X

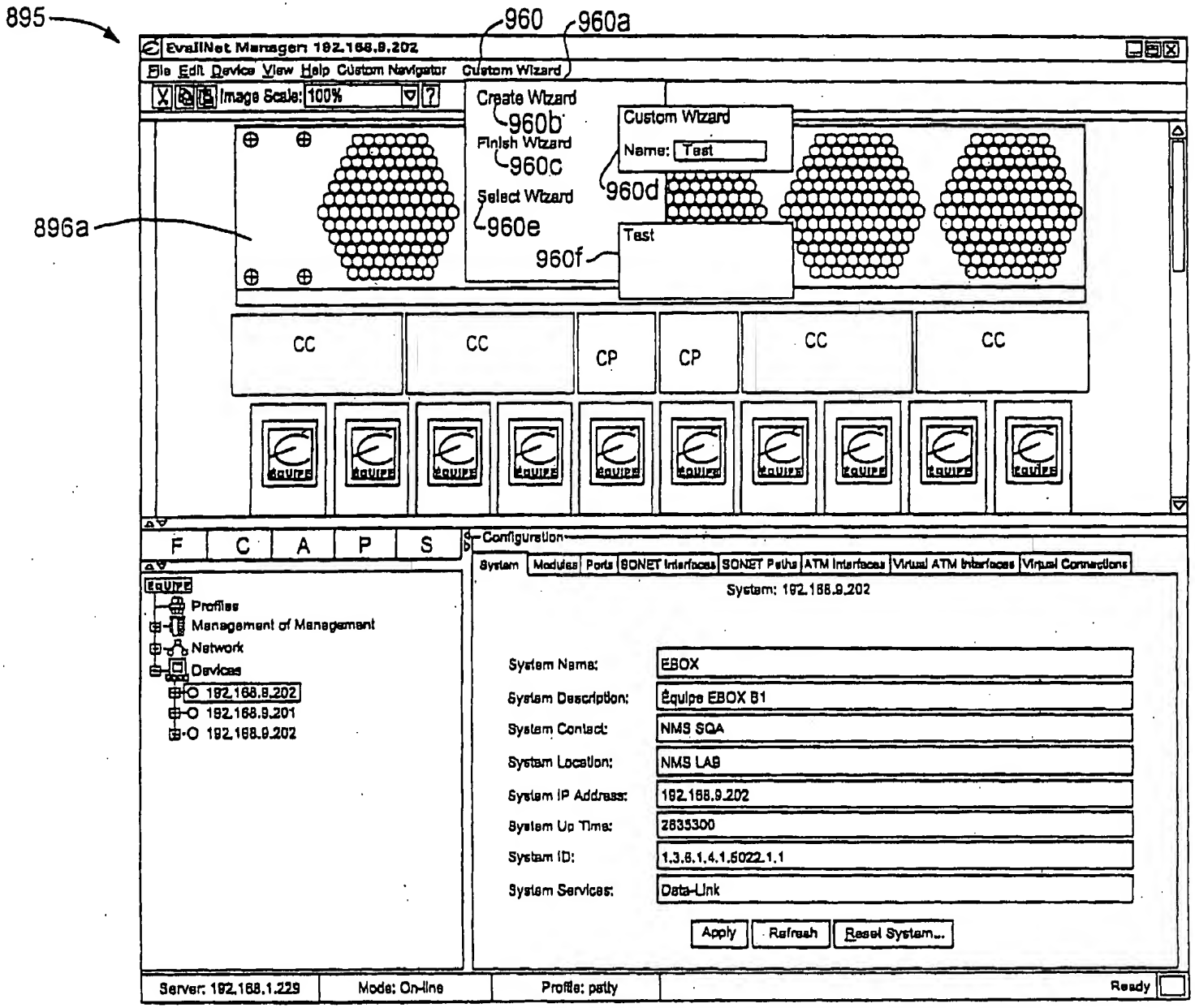

895
960
960a
EvalINet Manager: 192.168.9.202
File Edit Device View Help Custom Navigator Custom Wizard
Image Scale: 100%
Create Wizard
960b
Finish Wizard
960c
Select Wizard
960e
960f
Custom Wizard
Name: Test
960d
Test
896a
CC
CP
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
192.168.9.202
System Name: EBOX
System Description: Equipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 2833300
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4Y

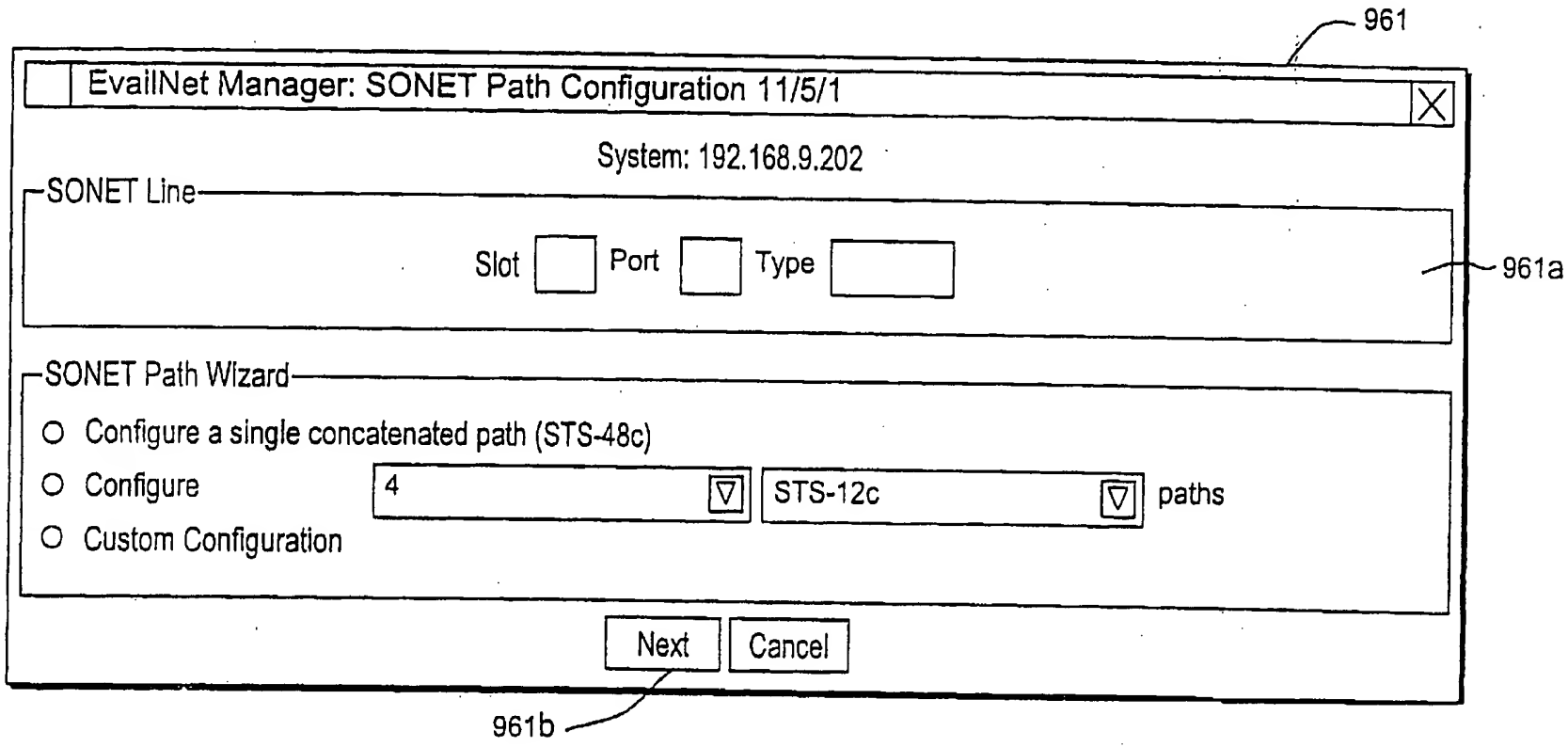

961
EvailNet Manager: SONET Path Configuration 11/5/1
System: 192.168.9.202
SONET Line
Slot
Port
Type
961a
SONET Path Wizard
Configure a single concatenated path (STS-48c)
Configure
4
STS-12c
paths
Custom Configuration
Next
Cancel
961b

FIG. 4Z

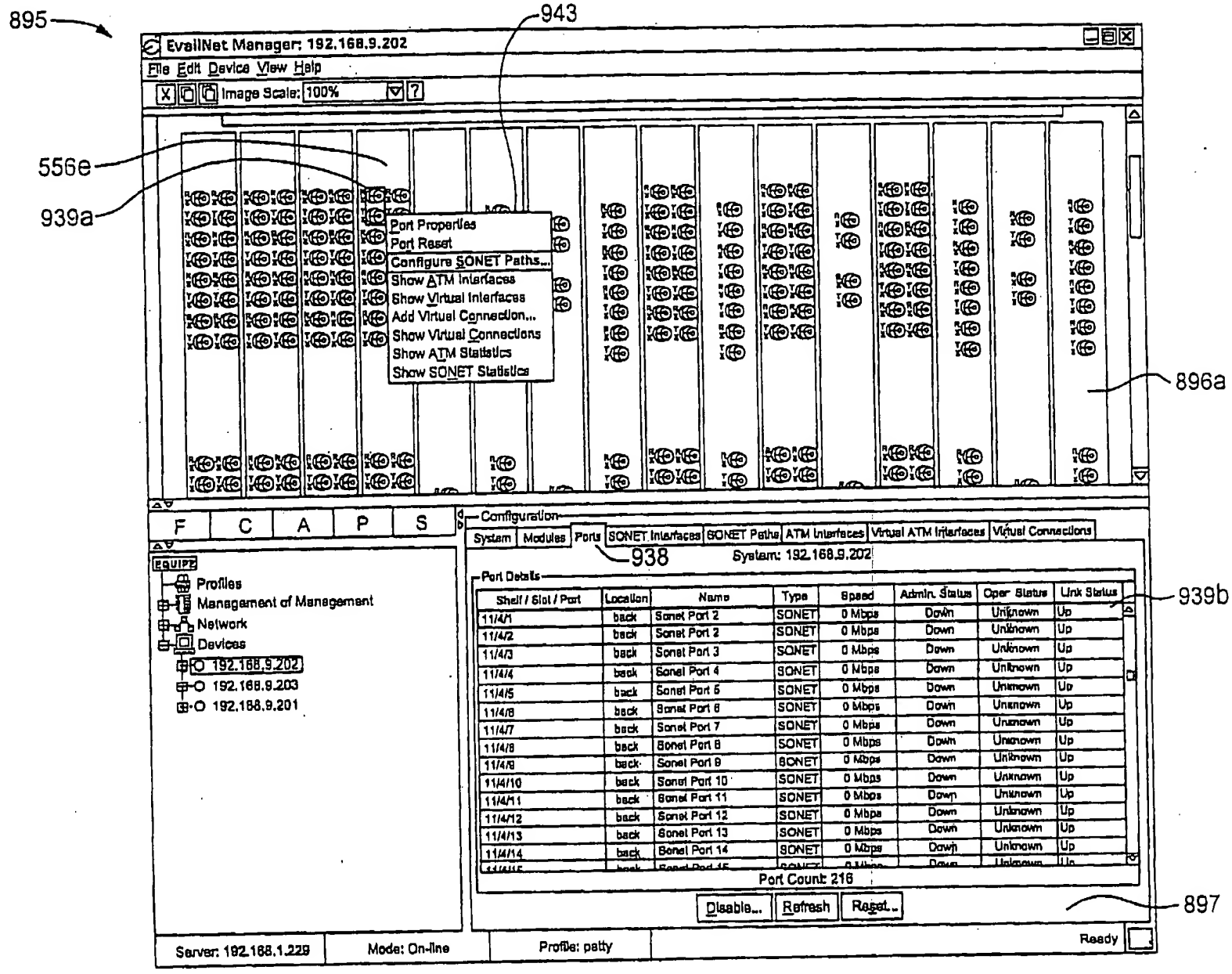

895
943
556e
939a
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
Port Properties
Port Reset
Configure SONET Paths...
Show ATM Interfaces
Show Virtual Interfaces
Add Virtual Connection...
Show Virtual Connections
Show ATM Statistics
Show SONET Statistics
896a
F C A P S
EQUIPZ
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
938
System: 192.168.9.202
Port Details
939b
Shelf / Slot / Port | Location | Name | Type | Speed | Admin. Status | Oper. Status | Link Status
11/4/1 back Sonet Port 2 SONET 0 Mbps Down Unknown Up
11/4/2 back Sonet Port 2 SONET 0 Mbps Down Unknown Up
11/4/3 back Sonet Port 3 SONET 0 Mbps Down Unknown Up
11/4/4 back Sonet Port 4 SONET 0 Mbps Down Unknown Up
11/4/5 back Sonet Port 5 SONET 0 Mbps Down Unknown Up
11/4/6 back Sonet Port 6 SONET 0 Mbps Down Unknown Up
11/4/7 back Sonet Port 7 SONET 0 Mbps Down Unknown Up
11/4/8 back Sonet Port 8 SONET 0 Mbps Down Unknown Up
11/4/9 back Sonet Port 9 SONET 0 Mbps Down Unknown Up
11/4/10 back Sonet Port 10 SONET 0 Mbps Down Unknown Up
11/4/11 back Sonet Port 11 SONET 0 Mbps Down Unknown Up
11/4/12 back Sonet Port 12 SONET 0 Mbps Down Unknown Up
11/4/13 back Sonet Port 13 SONET 0 Mbps Down Unknown Up
11/4/14 back Sonet Port 14 SONET 0 Mbps Down Unknown Up
Port Count: 216
Disable... Refresh Reset...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 5A

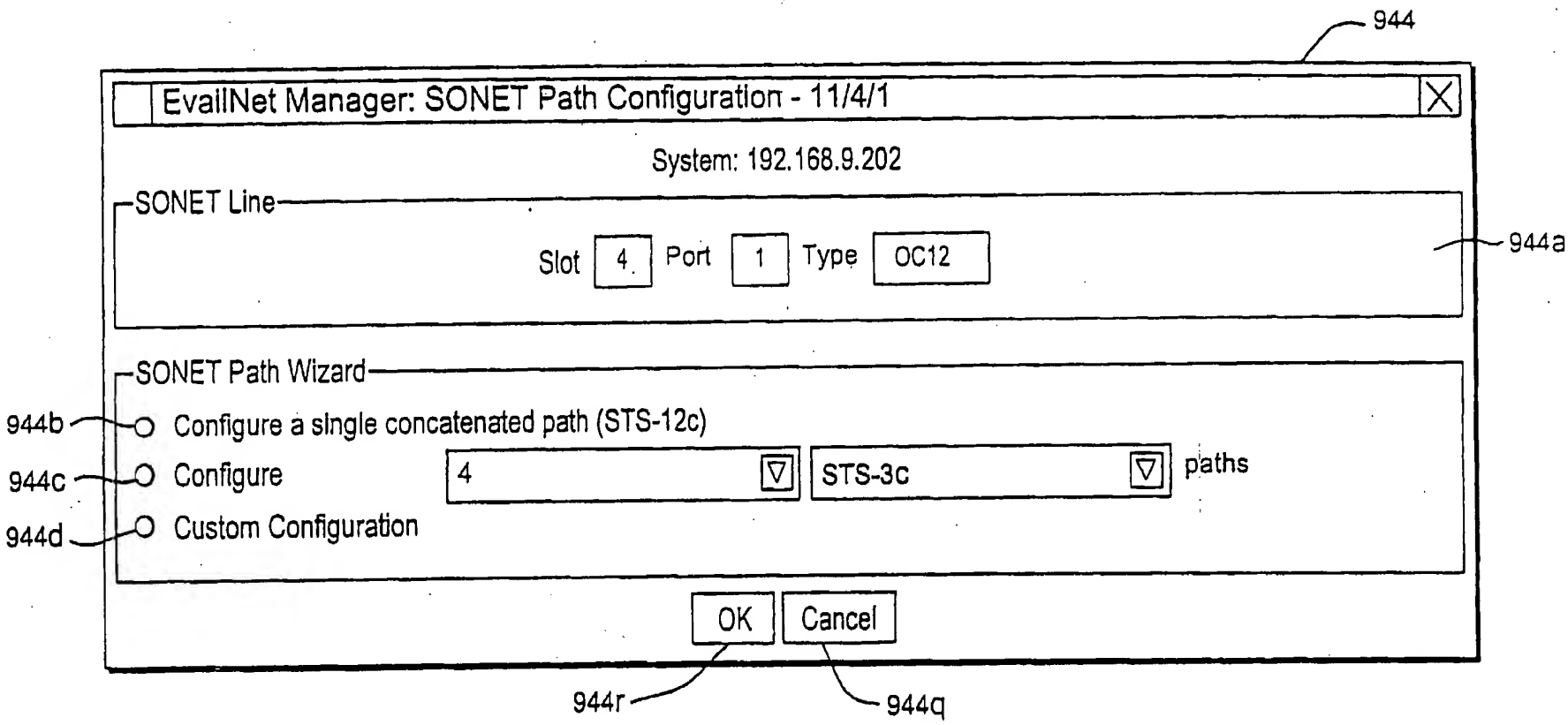

944
EvailNet Manager: SONET Path Configuration - 11/4/1
System: 192.168.9.202
SONET Line
Slot 4 Port 1 Type OC12
944a
SONET Path Wizard
944b
Configure a single concatenated path (STS-12c)
944c
Configure 4 STS-3c paths
944d
Custom Configuration
OK
Cancel
944r
944q

FIG. 5B

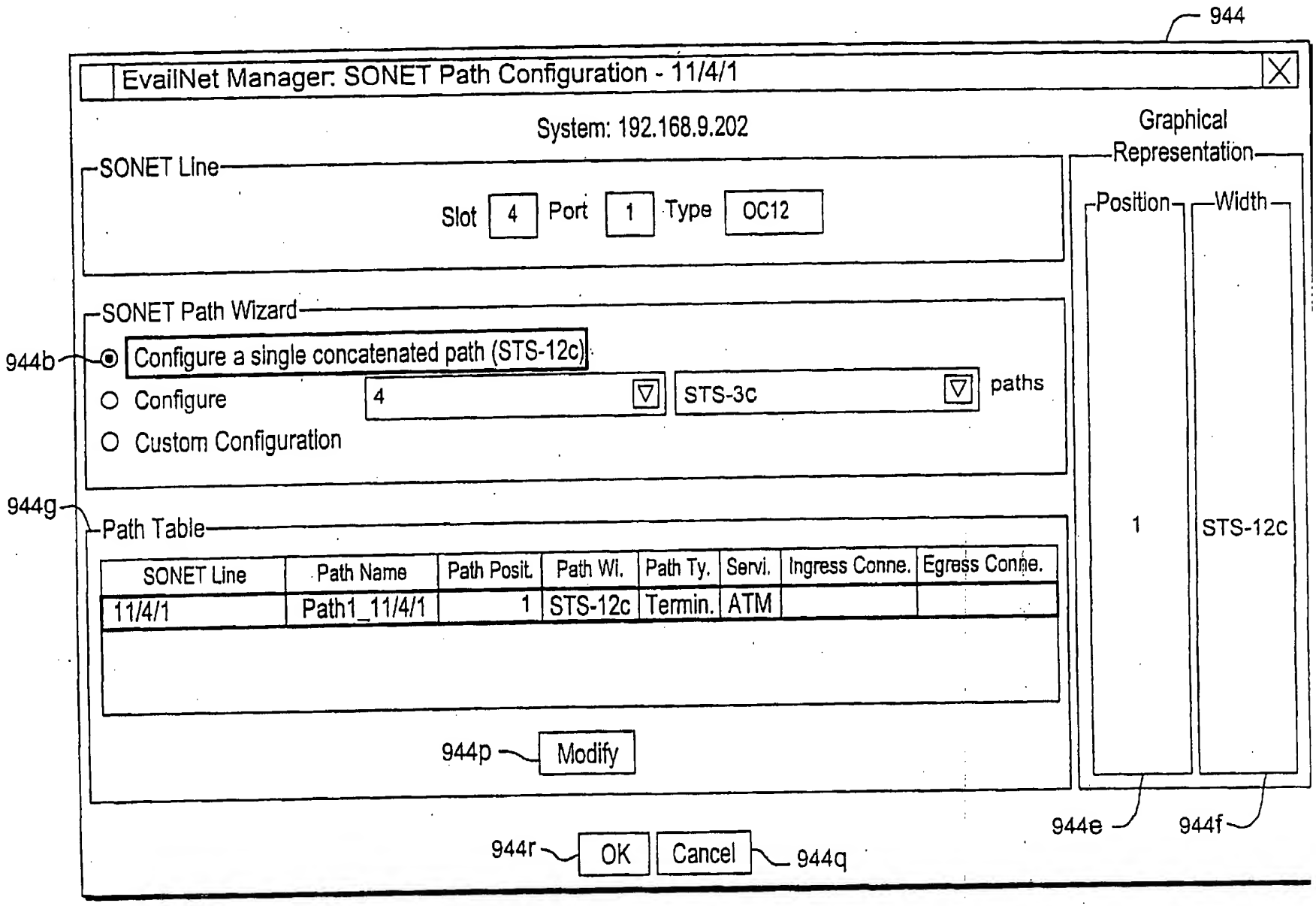

944
EvailNet Manager: SONET Path Configuration - 11/4/1
System: 192.168.9.202
Graphical Representation
SONET Line
Slot 4 Port 1 Type OC12
Position
Width
SONET Path Wizard
944b
Configure a single concatenated path (STS-12c)
Configure 4 STS-3c paths
Custom Configuration
944g
Path Table
SONET Line | Path Name | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne.
11/4/1 | Path1_11/4/1 | 1 | STS-12c | Termin. | ATM
1
STS-12c
944p
Modify
944e
944f
944r
OK
Cancel
944q

FIG. 5C

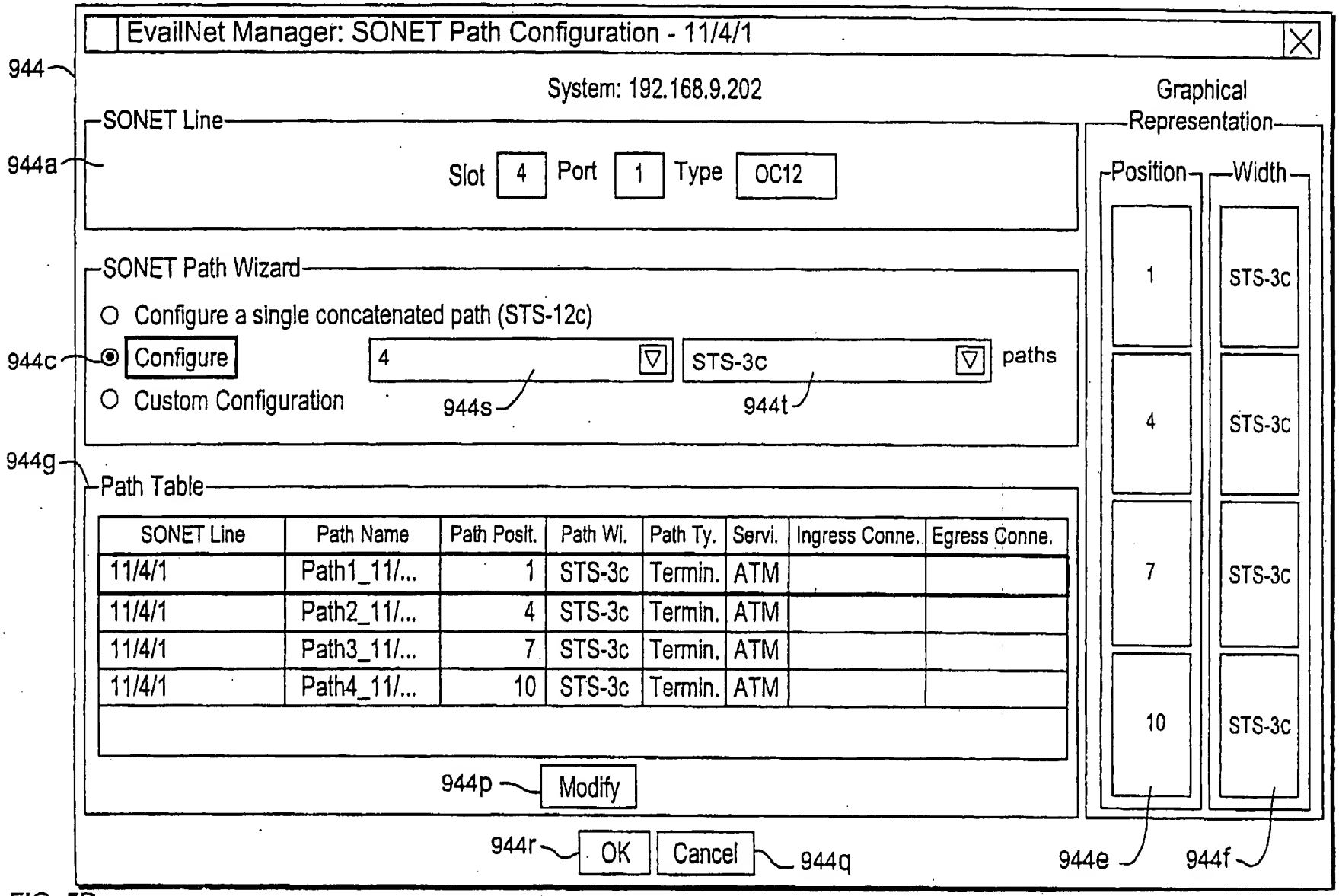

EvailNet Manager: SONET Path Configuration - 11/4/1
944
System: 192.168.9.202
Graphical Representation
SONET Line
944a
Slot 4 Port 1 Type OC12
Position
Width
SONET Path Wizard
Configure a single concatenated path (STS-12c)
944c
Configure
4
STS-3c
paths
Custom Configuration
944s
944t
944g
Path Table
SONET Line | Path Name | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne.
11/4/1 | Path1_11/... | 1 | STS-3c | Termin. | ATM
11/4/1 | Path2_11/... | 4 | STS-3c | Termin. | ATM
11/4/1 | Path3_11/... | 7 | STS-3c | Termin. | ATM
11/4/1 | Path4_11/... | 10 | STS-3c | Termin. | ATM
1
4
7
10
STS-3c
944p
Modify
944r
OK
Cancel
944q
944e
944f

FIG. 5D

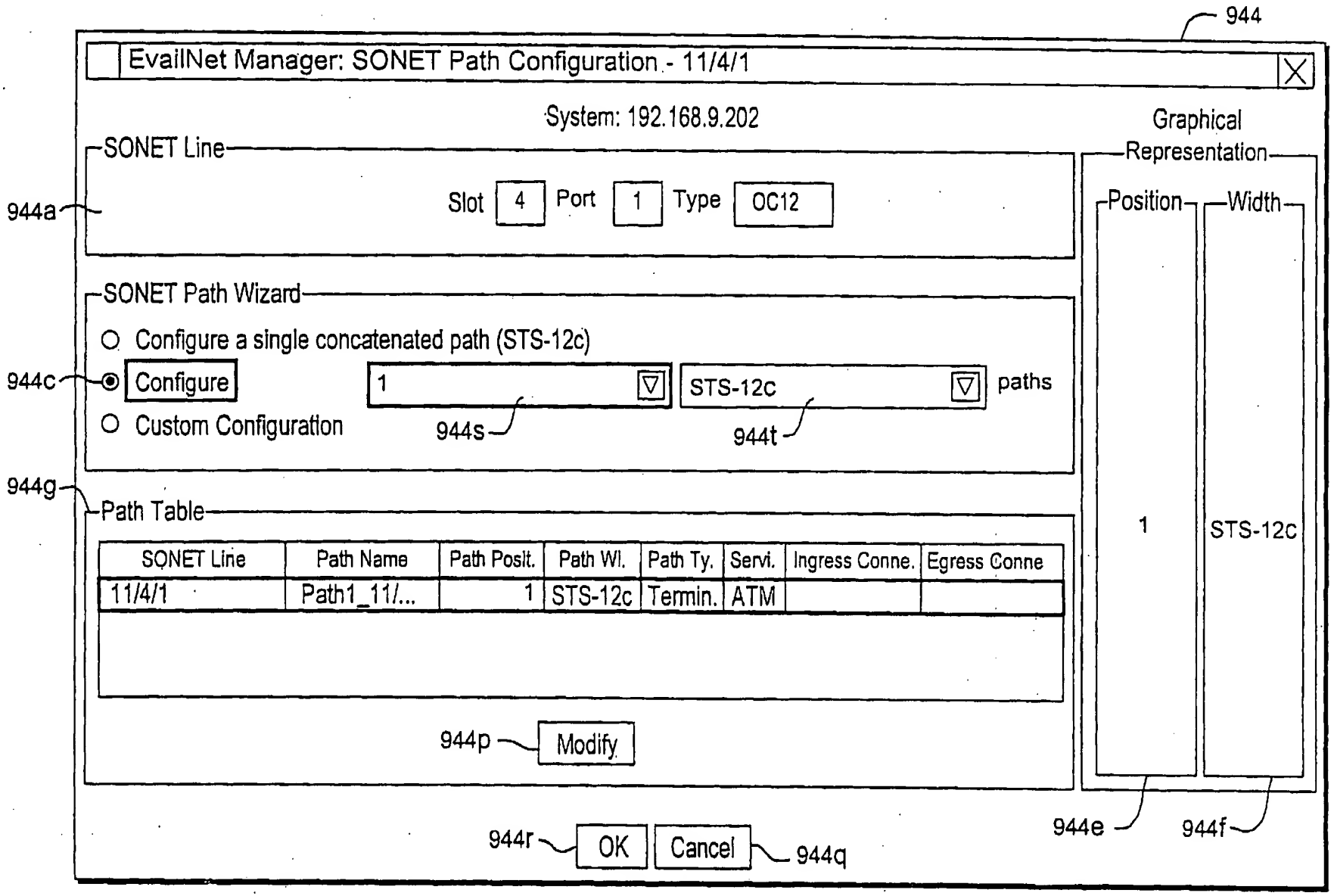

944
EvailNet Manager: SONET Path Configuration - 11/4/1
System: 192.168.9.202
Graphical Representation
SONET Line
944a
Slot 4 Port 1 Type OC12
Position
Width
SONET Path Wizard
Configure a single concatenated path (STS-12c)
944c
Configure
1
STS-12c
paths
Custom Configuration
944s
944t
944g
Path Table
SONET Line | Path Name | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne
11/4/1 | Path1_11/... | 1 | STS-12c | Termin. | ATM
1
STS-12c
944p
Modify
944e
944f
944r
OK
Cancel
944q

FIG. 5E

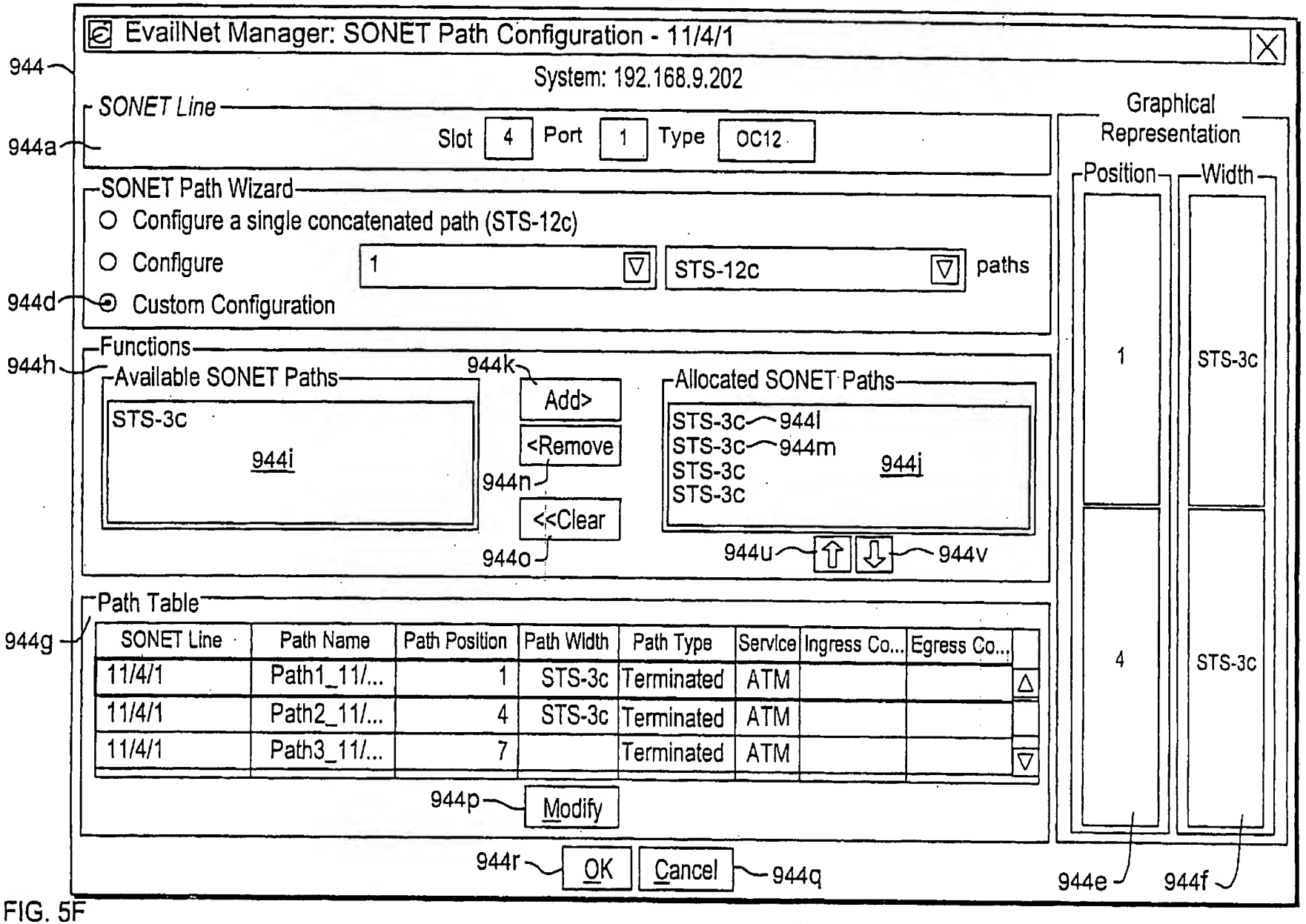

EvailNet Manager: SONET Path Configuration - 11/4/1
System: 192.168.9.202
944
SONET Line
944a
Slot 4 Port 1 Type OC12
SONET Path Wizard
Configure a single concatenated path (STS-12c)
Configure 1 STS-12c paths
944d
Custom Configuration
Functions
944h
Available SONET Paths
STS-3c
944i
944k
Add>
<Remove
944n
<<Clear
944o
Allocated SONET Paths
STS-3c 944l
STS-3c 944m
STS-3c
STS-3c
944j
944u
944v
Path Table
944g
SONET Line | Path Name | Path Position | Path Width | Path Type | Service | Ingress Co... | Egress Co...
11/4/1 | Path1_11/... | 1 | STS-3c | Terminated | ATM
11/4/1 | Path2_11/... | 4 | STS-3c | Terminated | ATM
11/4/1 | Path3_11/... | 7 | | Terminated | ATM
944p
Modify
944r
OK
Cancel
944q
Graphical Representation
Position
Width
1
STS-3c
4
STS-3c
944e
944f

FIG. 5F

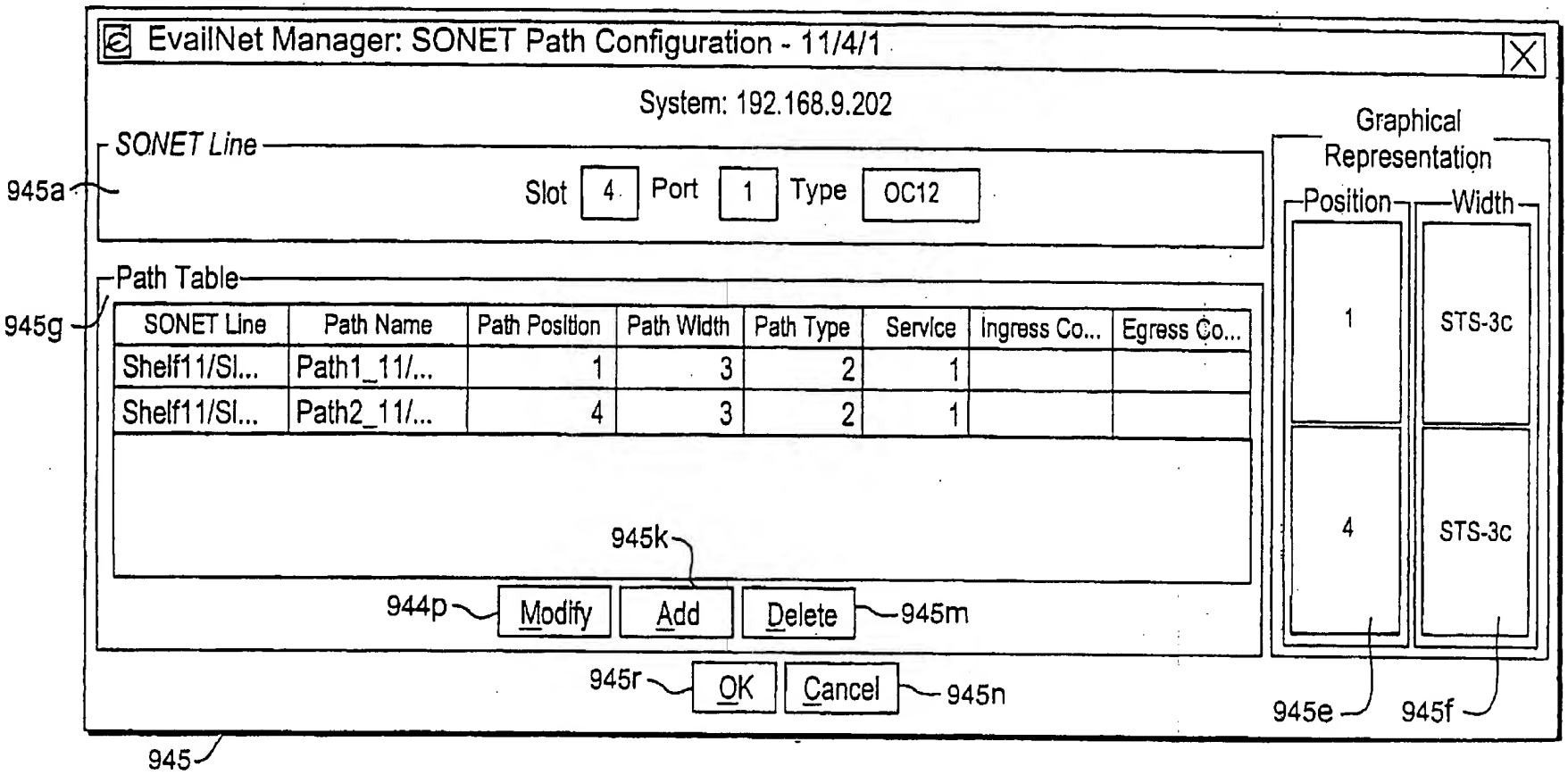

EvailNet Manager: SONET Path Configuration - 11/4/1
System: 192.168.9.202
SONET Line
945a
Slot 4 Port 1 Type OC12
Path Table
945g
SONET Line | Path Name | Path Position | Path Width | Path Type | Service | Ingress Co... | Egress Co...
Shelf11/Sl... | Path1_11/... | 1 | 3 | 2 | 1
Shelf11/Sl... | Path2_11/... | 4 | 3 | 2 | 1
945k
944p
Modify
Add
Delete
945m
945r
OK
Cancel
945n
945
Graphical Representation
Position
Width
1
STS-3c
4
STS-3c
945e
945f

FIG. 5G

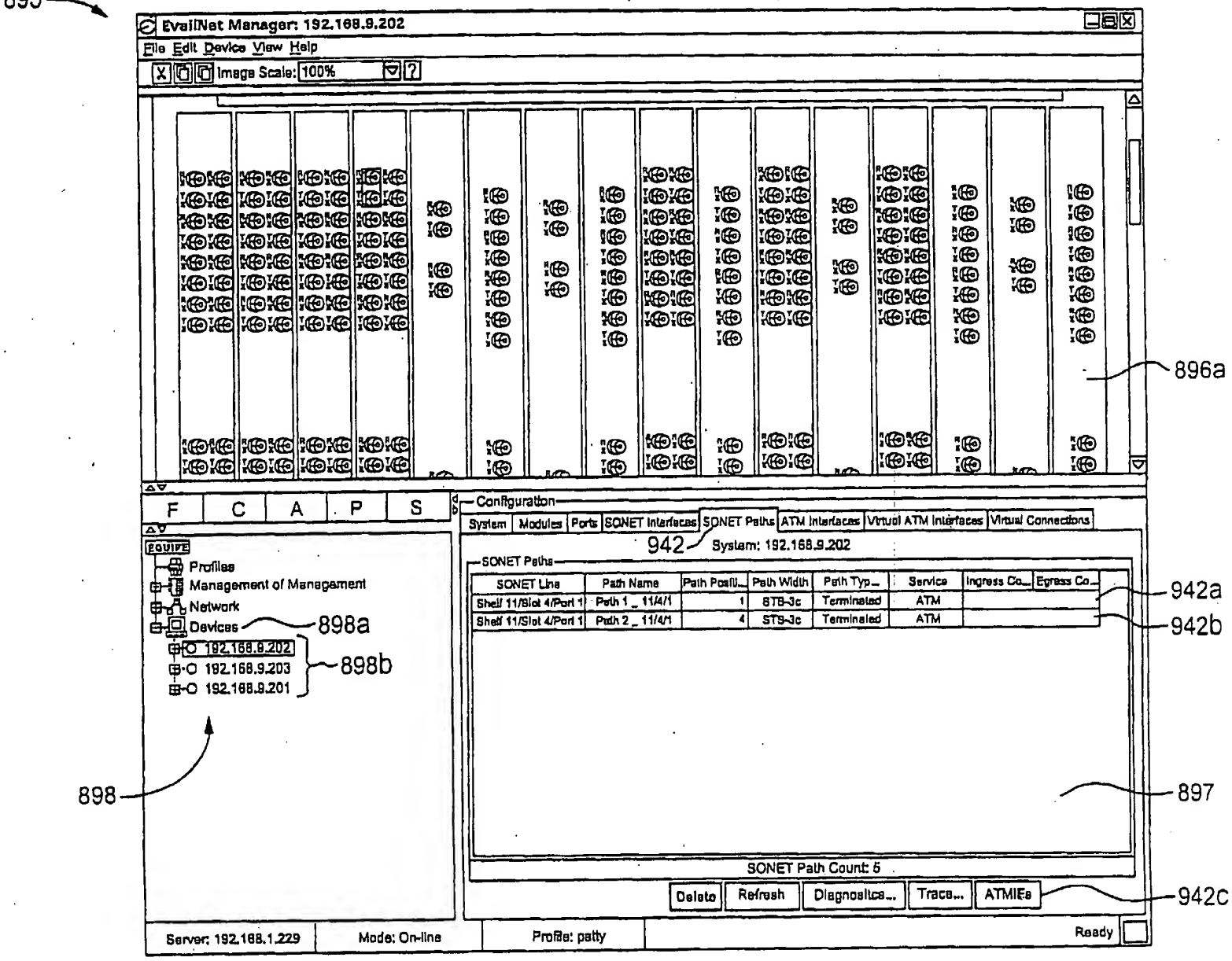

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
896a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
942
System: 192.168.9.202
EQUIPE
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.203
192.168.9.201
898b
898
SONET Paths
SONET Line | Path Name | Path Positi... | Path Width | Path Typ... | Service | Ingress Co... | Egress Co...
Shelf 11/Slot 4/Port 1 | Path 1 _ 11/4/1 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 4/Port 1 | Path 2 _ 11/4/1 | 4 | STS-3c | Terminated | ATM
942a
942b
897
SONET Path Count: 5
Delete Refresh Diagnostics... Trace... ATMIEs
942c
Server: 192.168.1.229 Mode: On-line Profile: patty Ready

FIG. 5H

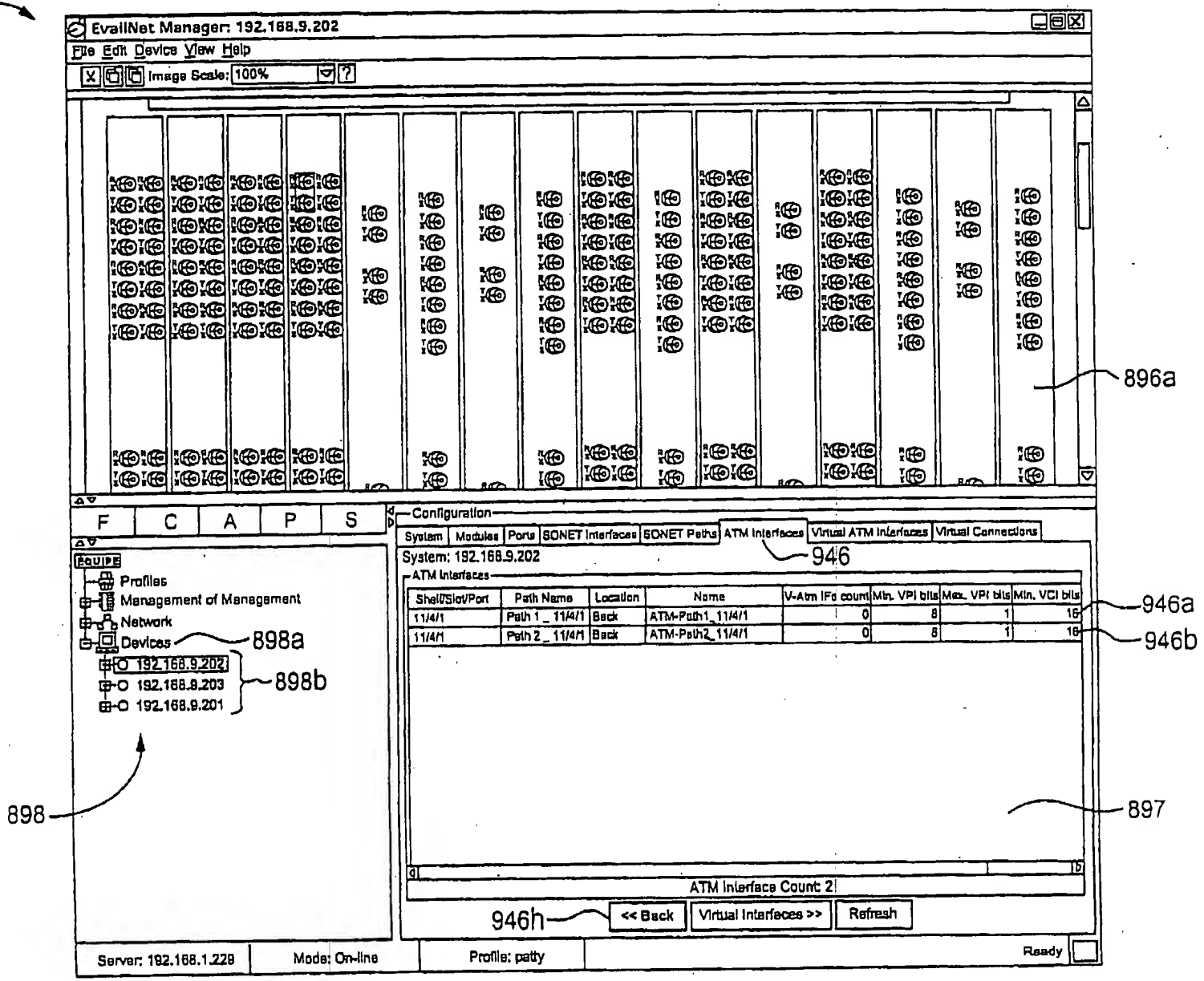

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
896a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
946
System: 192.168.9.202
ATM Interfaces
Shelf/Slot/Port
Path Name
Location
Name
V-Atm IFs count
Min. VPI bits
Max. VPI bits
Min. VCI bits
11/4/1
Path 1 _ 11/4/1
Back
ATM-Path1_11/4/1
0
8
1
16
11/4/1
Path 2 _ 11/4/1
Back
ATM-Path2_11/4/1
0
8
1
16
946a
946b
EQUIPE
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.203
192.168.9.201
898b
898
897
ATM Interface Count: 2
946h
<< Back
Virtual Interfaces >>
Refresh
Server: 192.168.1.228
Mode: On-line
Profile: patty
Ready

FIG. 5I

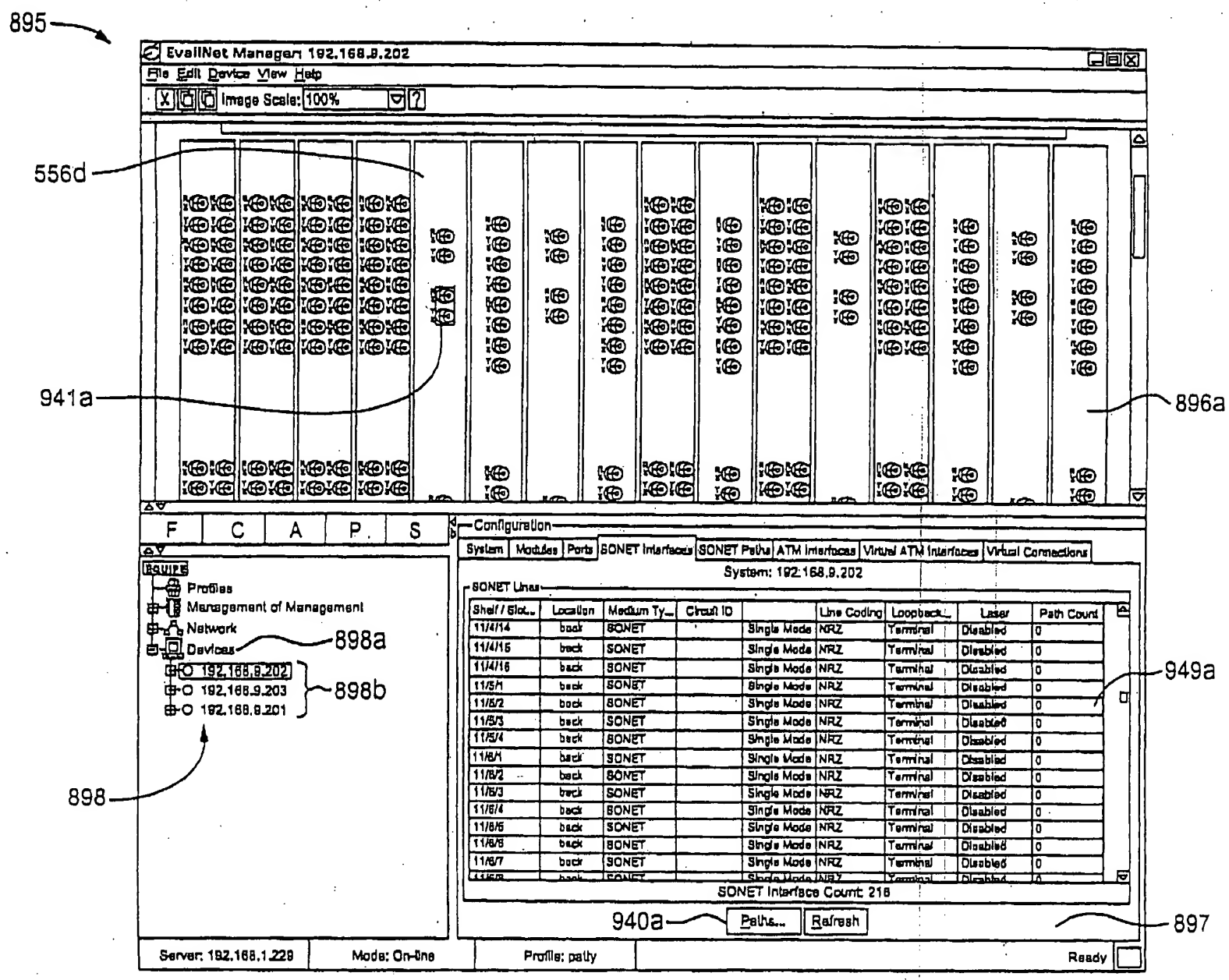

895
EvalNet Manager 192.168.9.202
File Edit Device View Help
Image Scale: 100%
556d
941a
896a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
EQUIPS
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.203
192.168.9.201
898b
898
SONET Lines
Shelf / Slot... Location Medium Ty... Circuit ID Line Coding Loopback... Laser Path Count
11/4/14 back SONET Single Mode NRZ Terminal Disabled 0
11/4/15 back SONET Single Mode NRZ Terminal Disabled 0
11/4/16 back SONET Single Mode NRZ Terminal Disabled 0
11/5/1 back SONET Single Mode NRZ Terminal Disabled 0
11/5/2 back SONET Single Mode NRZ Terminal Disabled 0
11/5/3 back SONET Single Mode NRZ Terminal Disabled 0
11/5/4 back SONET Single Mode NRZ Terminal Disabled 0
11/6/1 back SONET Single Mode NRZ Terminal Disabled 0
11/6/2 back SONET Single Mode NRZ Terminal Disabled 0
11/6/3 back SONET Single Mode NRZ Terminal Disabled 0
11/6/4 back SONET Single Mode NRZ Terminal Disabled 0
11/6/5 back SONET Single Mode NRZ Terminal Disabled 0
11/6/6 back SONET Single Mode NRZ Terminal Disabled 0
11/6/7 back SONET Single Mode NRZ Terminal Disabled 0
949a
SONET Interface Count: 216
940a
Paths...
Refresh
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 5J

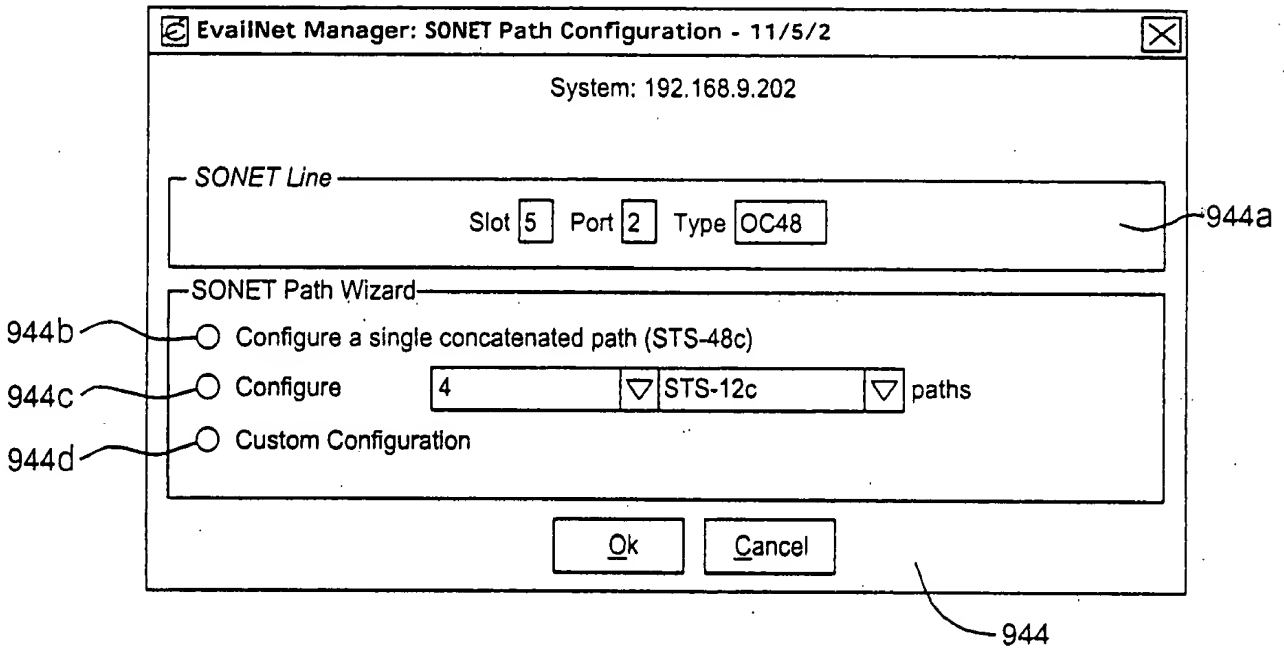

EvalNet Manager: SONET Path Configuration - 11/5/2
System: 192.168.9.202
SONET Line
Slot 5 Port 2 Type OC48
944a
SONET Path Wizard
944b
Configure a single concatenated path (STS-48c)
944c
Configure 4 STS-12c paths
944d
Custom Configuration
Ok
Cancel
944

FIG. 5K

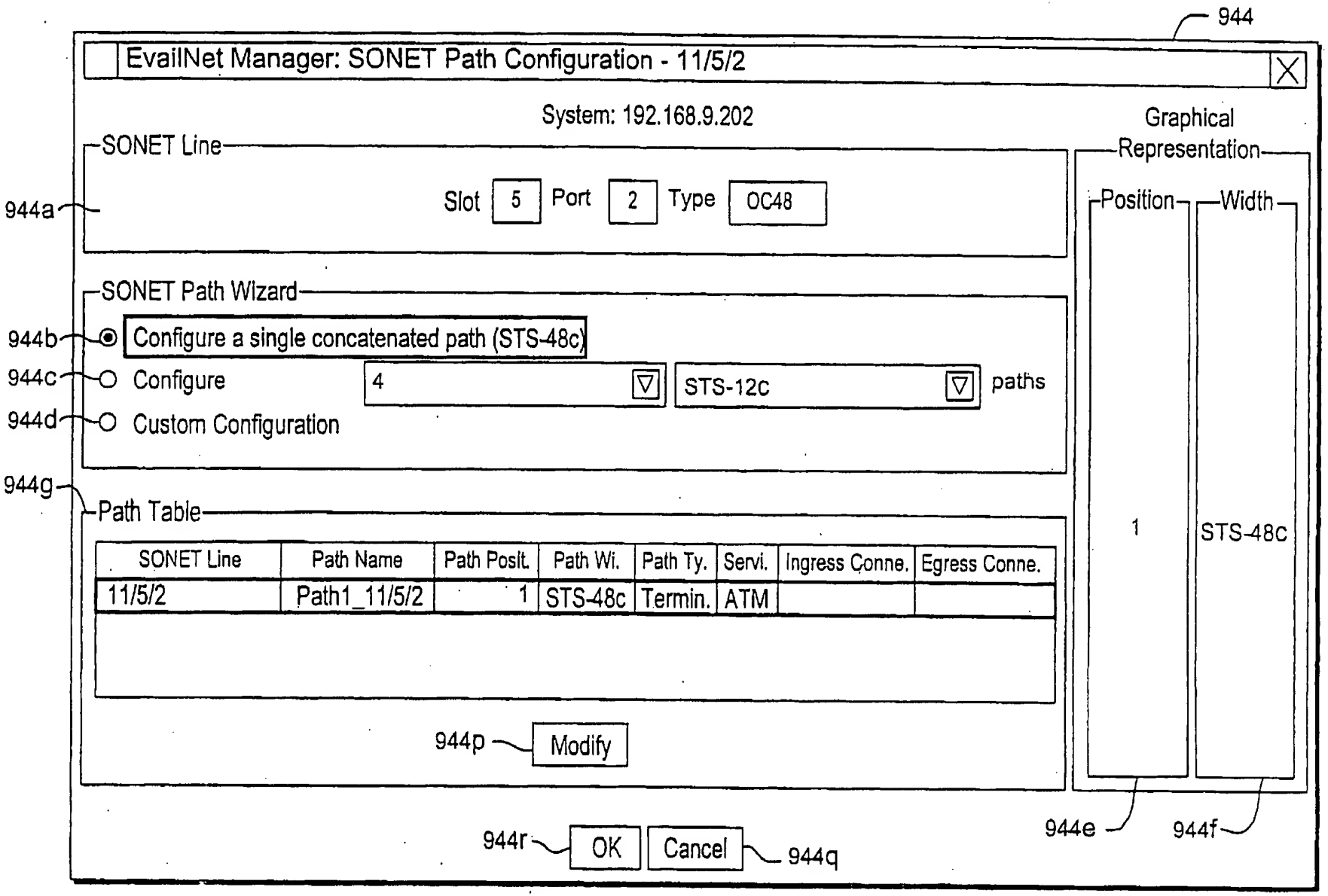

944
EvailNet Manager: SONET Path Configuration - 11/5/2
System: 192.168.9.202
Graphical Representation
SONET Line
944a
Slot 5 Port 2 Type OC48
Position
Width
SONET Path Wizard
944b
Configure a single concatenated path (STS-48c)
944c
Configure 4 STS-12c paths
944d
Custom Configuration
944g
Path Table
SONET Line | Path Name | Path Poslt. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne.
11/5/2 | Path1_11/5/2 | 1 | STS-48c | Termin. | ATM
1
STS-48c
944p
Modify
944e
944f
944r
OK
Cancel
944q

FIG. 5L

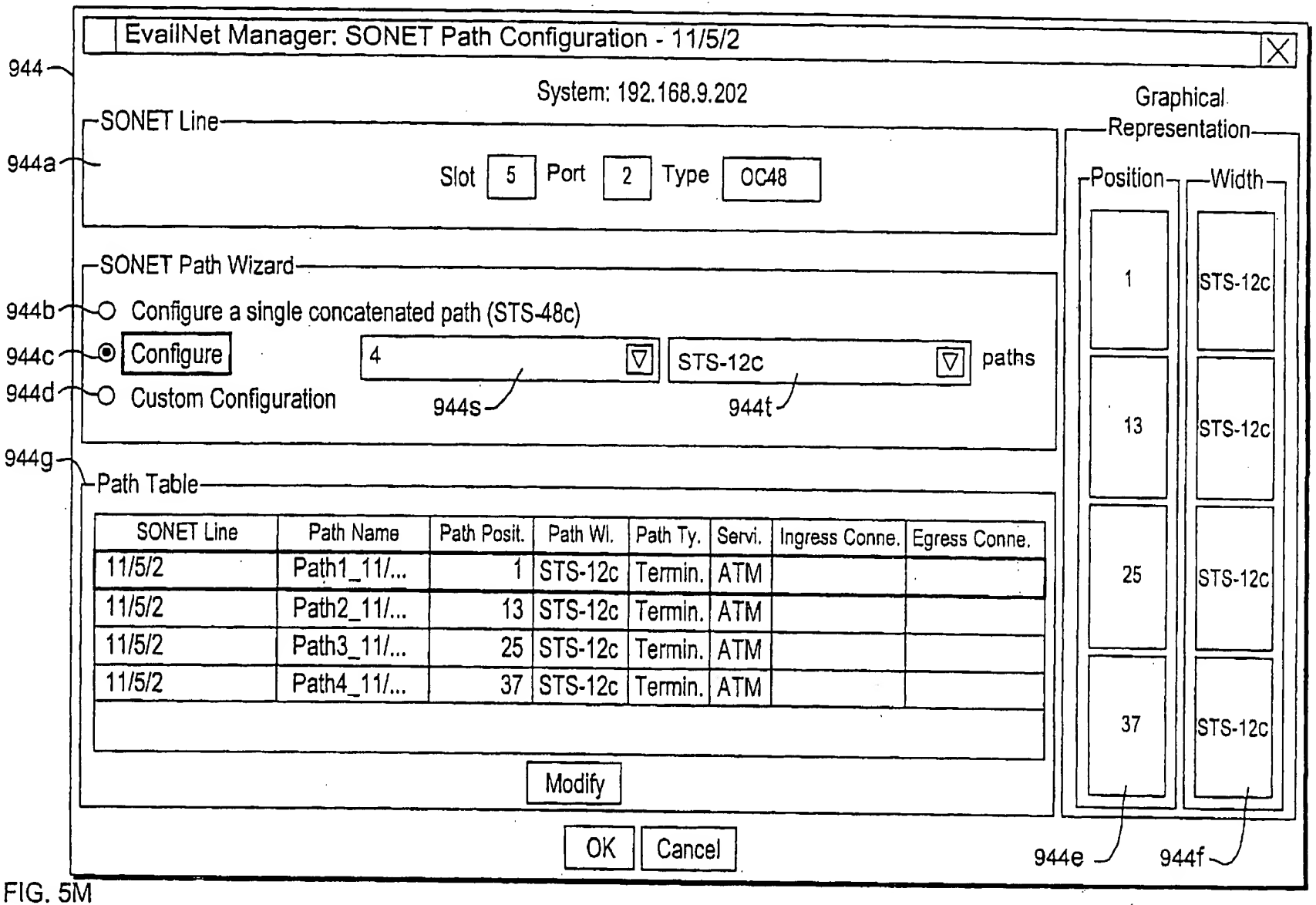

EvailNet Manager: SONET Path Configuration - 11/5/2
944
System: 192.168.9.202
SONET Line
944a
Slot 5 Port 2 Type OC48
SONET Path Wizard
944b
Configure a single concatenated path (STS-48c)
944c
Configure
944d
Custom Configuration
4
944s
STS-12c
944t
paths
944g
Path Table
SONET Line | Path Name | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne.
11/5/2 | Path1_11/... | 1 | STS-12c | Termin. | ATM
11/5/2 | Path2_11/... | 13 | STS-12c | Termin. | ATM
11/5/2 | Path3_11/... | 25 | STS-12c | Termin. | ATM
11/5/2 | Path4_11/... | 37 | STS-12c | Termin. | ATM
Modify
OK
Cancel
Graphical Representation
Position
Width
1
13
25
37
STS-12c
STS-12c
STS-12c
STS-12c
944e
944f

FIG. 5M

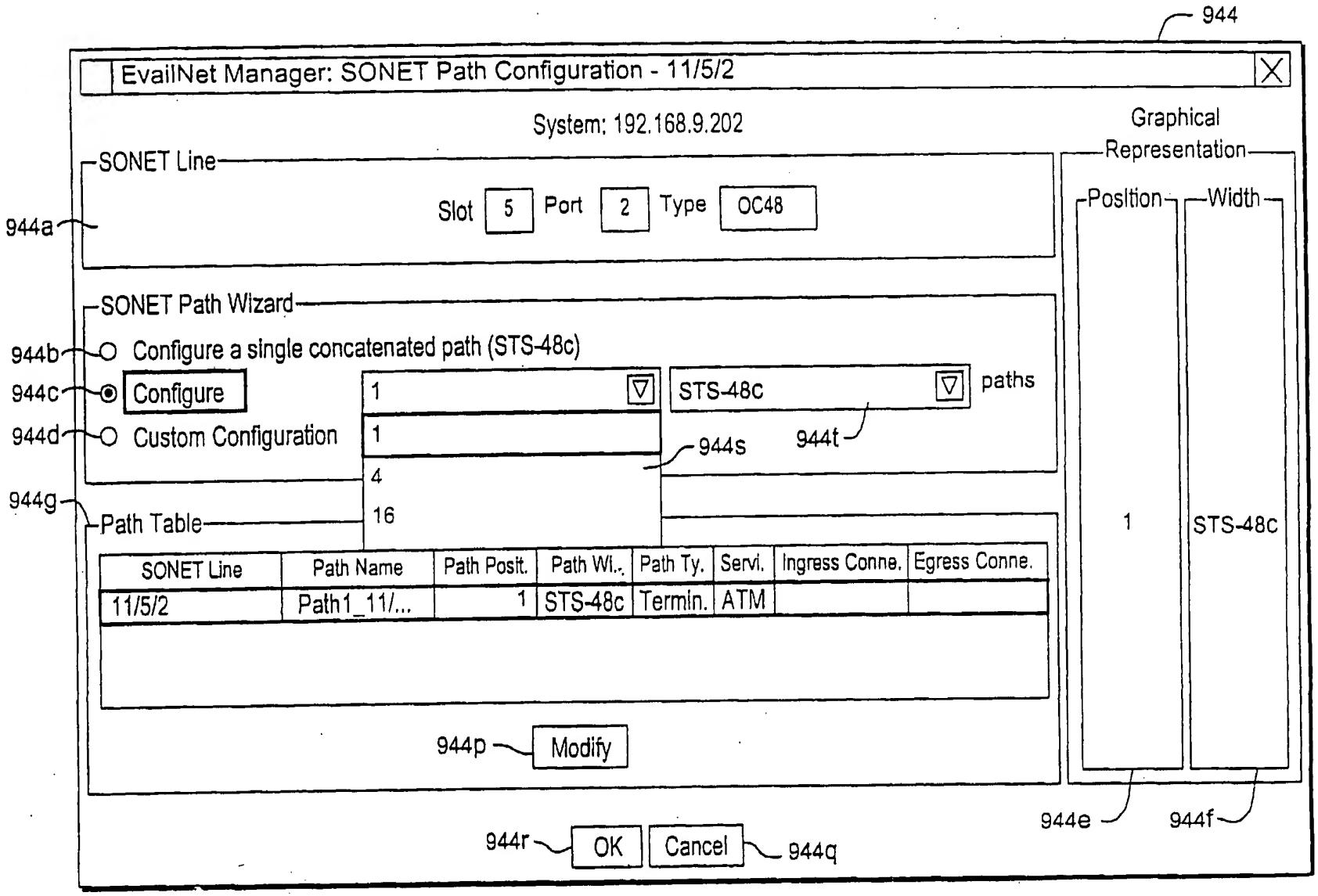

944
EvailNet Manager: SONET Path Configuration - 11/5/2
System: 192.168.9.202
Graphical Representation
SONET Line
944a
Slot 5 Port 2 Type OC48
Posltion
Width
SONET Path Wizard
944b
Configure a single concatenated path (STS-48c)
944c
Configure
944d
Custom Configuration
1
STS-48c
paths
1
4
16
944s
944t
944g
Path Table
1
STS-48c
SONET Line
Path Name
Path Posit.
Path Wi..
Path Ty.
Servi.
Ingress Conne.
Egress Conne.
11/5/2
Path1_11/...
1
STS-48c
Termin.
ATM
944p
Modify
944e
944f
944r
OK
Cancel
944q

FIG. 5N

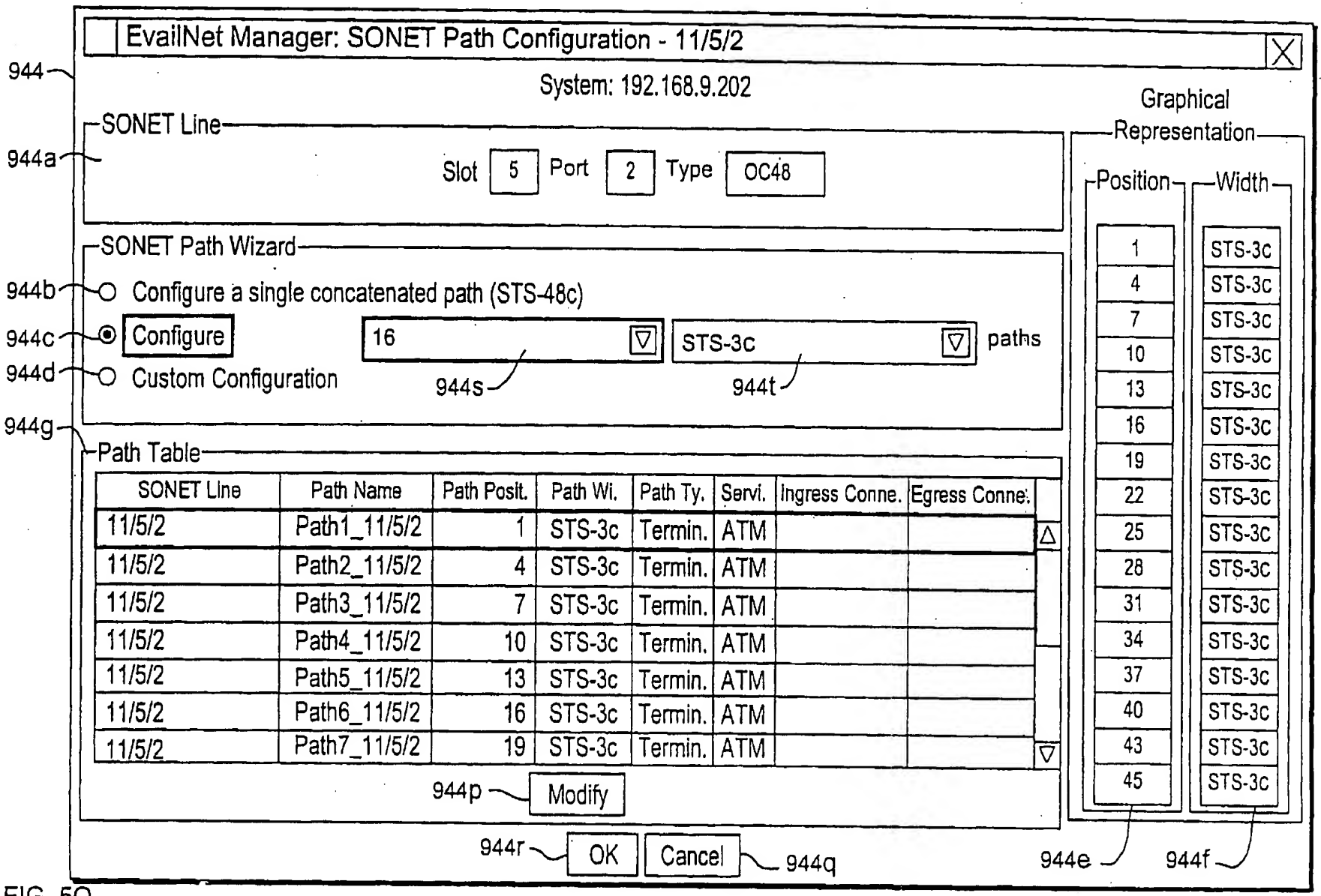

EvailNet Manager: SONET Path Configuration - 11/5/2
944
System: 192.168.9.202
Graphical Representation
SONET Line
944a
Slot 5 Port 2 Type OC48
Position
Width
SONET Path Wizard
944b
Configure a single concatenated path (STS-48c)
944c
Configure
16
STS-3c
paths
944d
Custom Configuration
944s
944t
944g
Path Table
SONET Line | Path Name | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne.
11/5/2 | Path1_11/5/2 | 1 | STS-3c | Termin. | ATM
11/5/2 | Path2_11/5/2 | 4 | STS-3c | Termin. | ATM
11/5/2 | Path3_11/5/2 | 7 | STS-3c | Termin. | ATM
11/5/2 | Path4_11/5/2 | 10 | STS-3c | Termin. | ATM
11/5/2 | Path5_11/5/2 | 13 | STS-3c | Termin. | ATM
11/5/2 | Path6_11/5/2 | 16 | STS-3c | Termin. | ATM
11/5/2 | Path7_11/5/2 | 19 | STS-3c | Termin. | ATM
944p
Modify
944r
OK
Cancel
944q
944e
944f
1 4 7 10 13 16 19 22 25 28 31 34 37 40 43 45
STS-3c

FIG. 5O

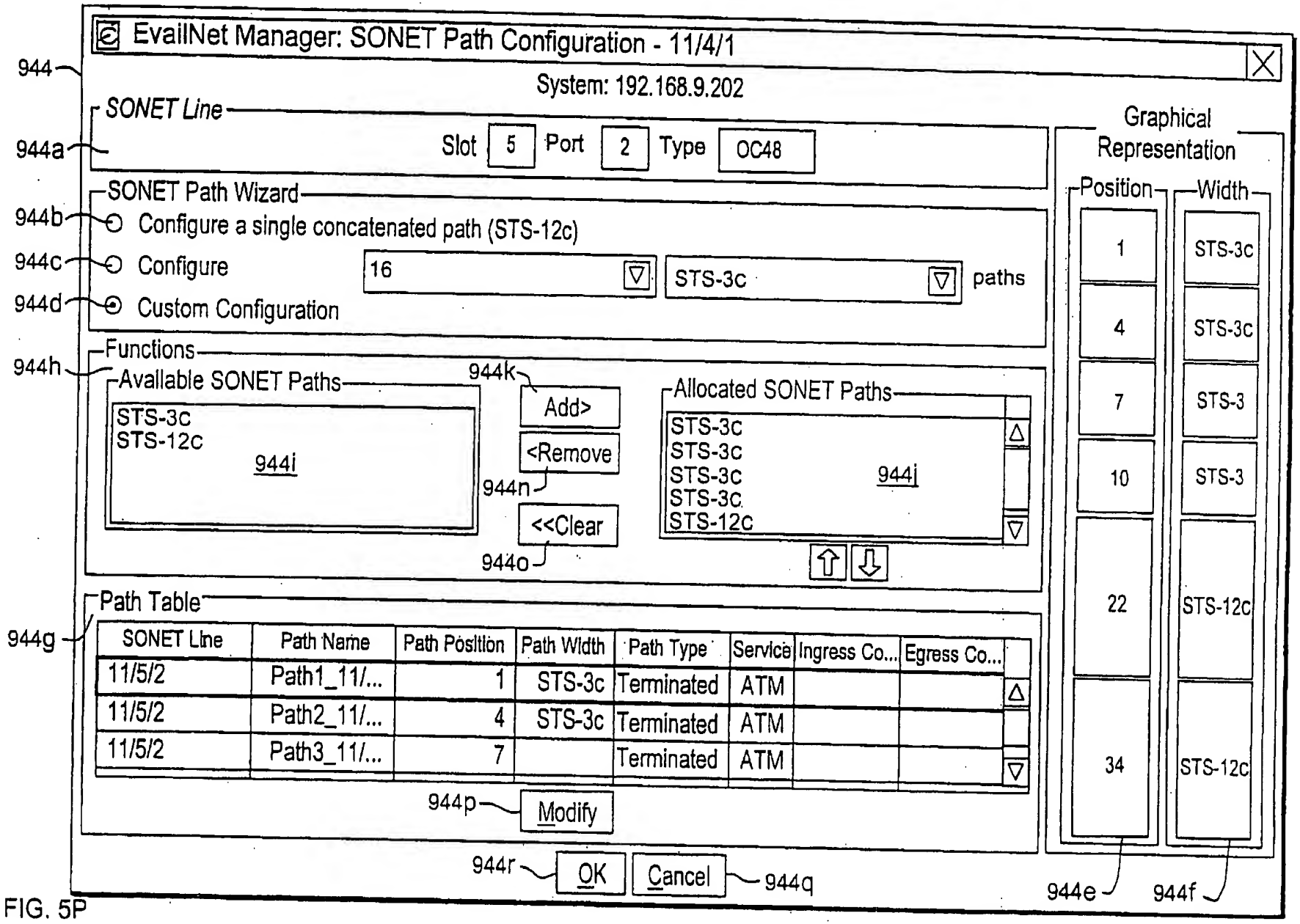

EvailNet Manager: SONET Path Configuration - 11/4/1
System: 192.168.9.202
944
SONET Line
944a
Slot 5 Port 2 Type OC48
SONET Path Wizard
944b
Configure a single concatenated path (STS-12c)
944c
Configure 16 STS-3c paths
944d
Custom Configuration
Functions
944h
Available SONET Paths
STS-3c
STS-12c
944i
944k
Add>
<Remove
944n
<<Clear
944o
Allocated SONET Paths
STS-3c
STS-3c
STS-3c
STS-3c
STS-12c
944j
Path Table
944g
SONET Line | Path Name | Path Position | Path Width | Path Type | Service | Ingress Co... | Egress Co...
11/5/2 | Path1_11/... | 1 | STS-3c | Terminated | ATM
11/5/2 | Path2_11/... | 4 | STS-3c | Terminated | ATM
11/5/2 | Path3_11/... | 7 | | Terminated | ATM
944p
Modify
944r
OK
Cancel
944q
Graphical Representation
Position
Width
1 STS-3c
4 STS-3c
7 STS-3
10 STS-3
22 STS-12c
34 STS-12c
944e
944f

FIG. 5P

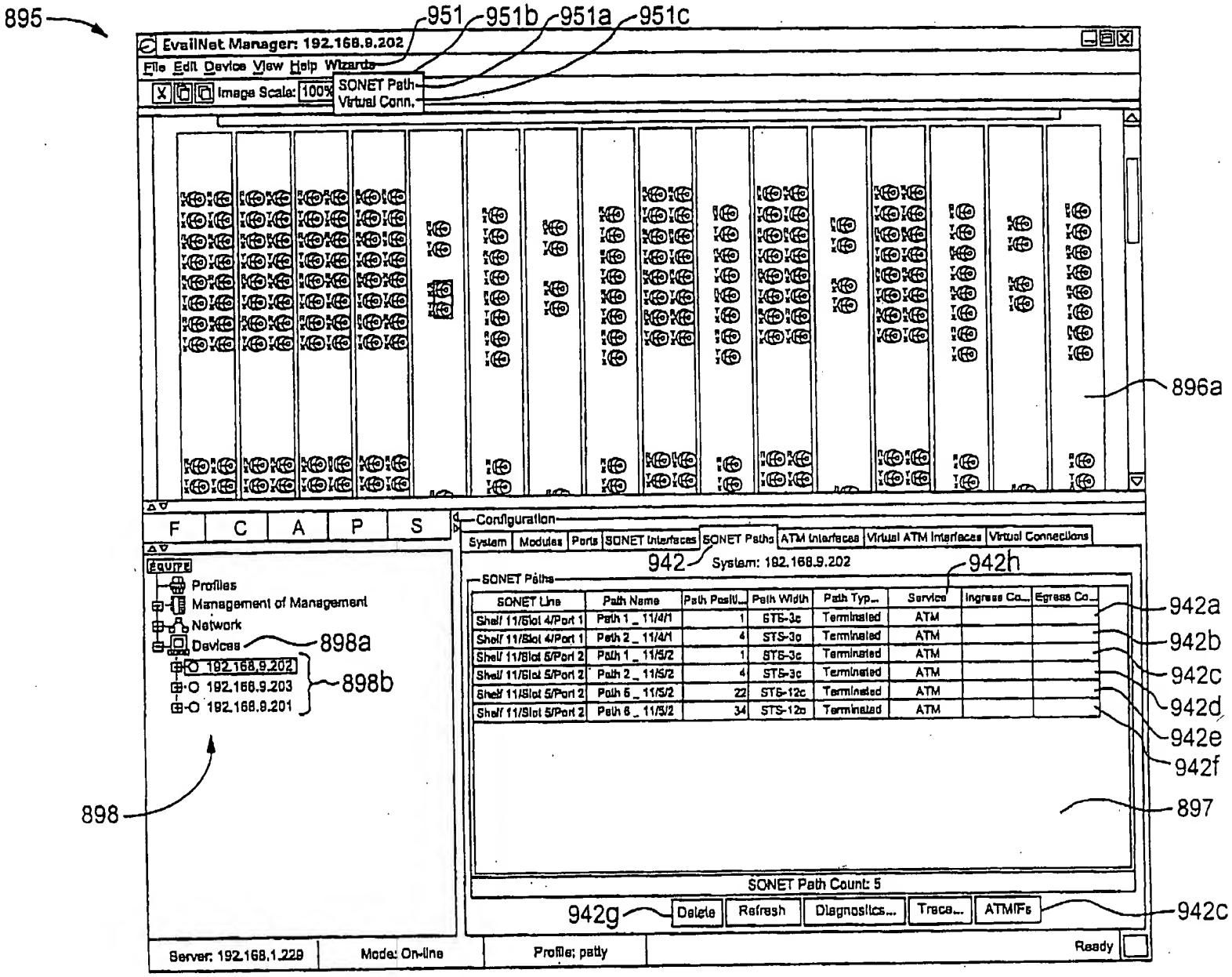

895
951
951b
951a
951c
EvalNet Manager: 192.168.9.202
File Edit Device View Help Wizards
Image Scale: 100%
SONET Path
Virtual Conn.
896a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
942
System: 192.168.9.202
942h
Equip
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.203
192.168.9.201
898b
898
SONET Paths
SONET Line | Path Name | Path Positi... | Path Width | Path Typ... | Service | Ingress Co... | Egress Co...
Shelf 11/Slot 4/Port 1 | Path 1 _ 11/4/1 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 4/Port 1 | Path 2 _ 11/4/1 | 4 | STS-3c | Terminated | ATM
Shelf 11/Slot 5/Port 2 | Path 1 _ 11/5/2 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 5/Port 2 | Path 2 _ 11/5/2 | 4 | STS-3c | Terminated | ATM
Shelf 11/Slot 5/Port 2 | Path 6 _ 11/5/2 | 22 | STS-12c | Terminated | ATM
Shelf 11/Slot 5/Port 2 | Path 8 _ 11/5/2 | 34 | STS-12c | Terminated | ATM
942a
942b
942c
942d
942e
942f
897
SONET Path Count: 5
942g
Delete
Refresh
Diagnostics...
Trace...
ATMIFs
942c
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 5Q

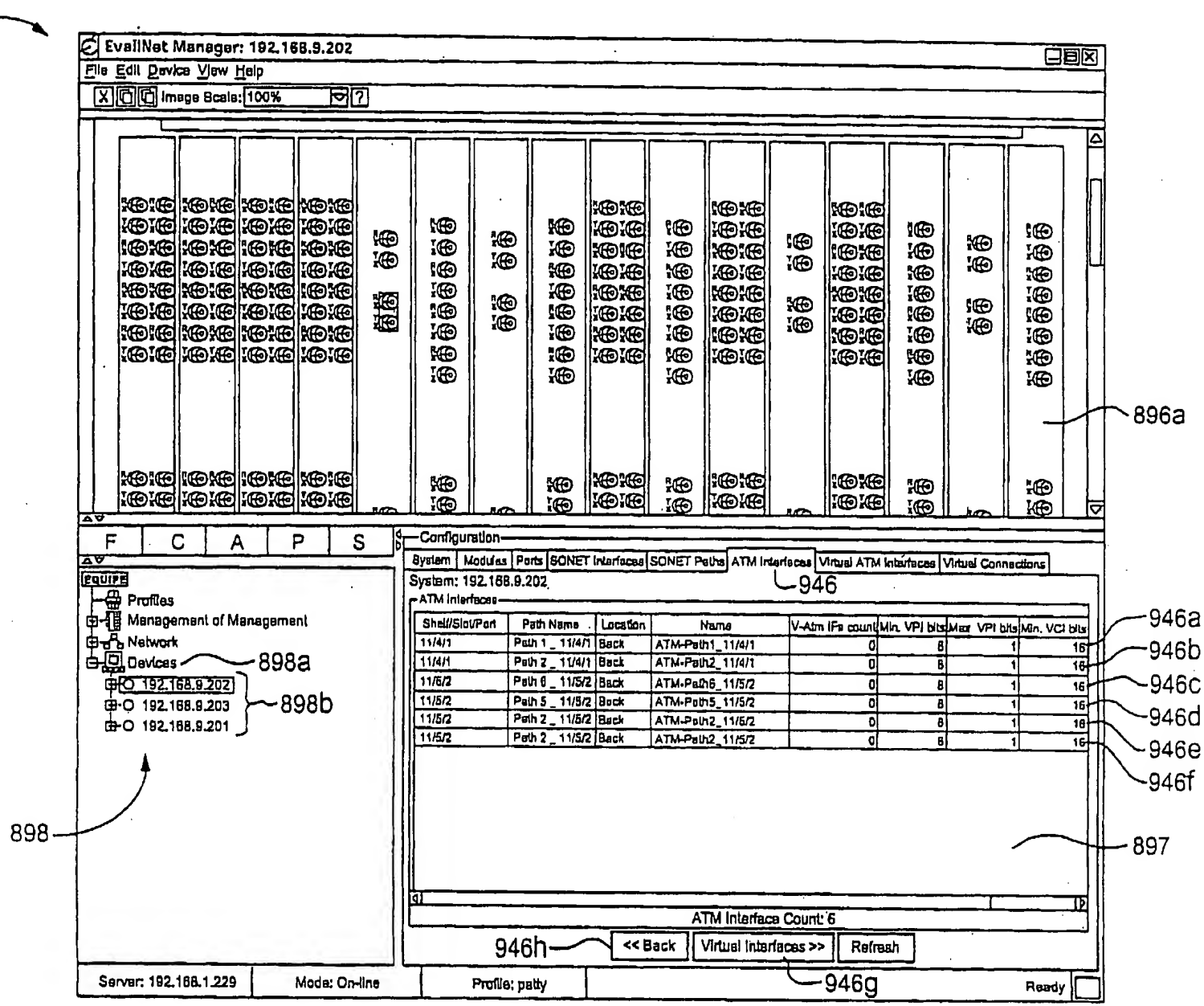

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
896a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
946
System: 192.168.9.202
ATM Interfaces
Shelf/Slot/Port | Path Name | Location | Name | V-Atm IFs count | Min. VPI bits | Max. VPI bits | Min. VCI bits
11/4/1 | Path 1 _ 11/4/1 | Back | ATM-Path1_11/4/1 | 0 | 8 | 1 | 16
11/4/1 | Path 2 _ 11/4/1 | Back | ATM-Path2_11/4/1 | 0 | 8 | 1 | 16
11/5/2 | Path 6 _ 11/5/2 | Back | ATM-Path6_11/5/2 | 0 | 8 | 1 | 16
11/5/2 | Path 5 _ 11/5/2 | Back | ATM-Path5_11/5/2 | 0 | 8 | 1 | 16
11/5/2 | Path 2 _ 11/5/2 | Back | ATM-Path2_11/5/2 | 0 | 8 | 1 | 16
11/5/2 | Path 2 _ 11/5/2 | Back | ATM-Path2_11/5/2 | 0 | 8 | 1 | 16
946a
946b
946c
946d
946e
946f
897
ATM Interface Count: 6
946h
<< Back
Virtual Interfaces >>
Refresh
946g
EQUIPE
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.203
192.168.9.201
898b
898
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 5R

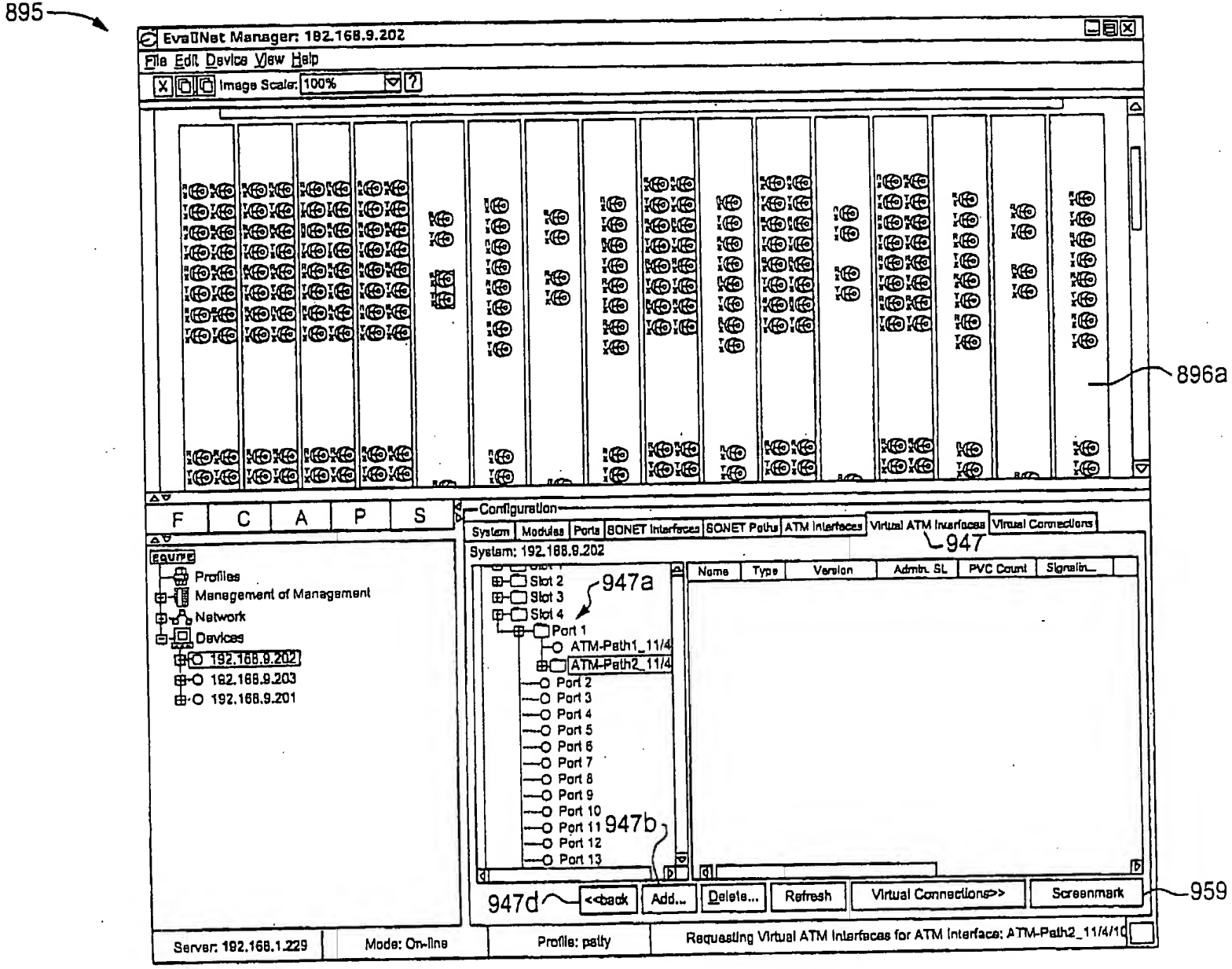

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
896a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
947
System: 192.168.9.202
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Slot 2
Slot 3
Slot 4
947a
Port 1
ATM-Path1_11/4
ATM-Path2_11/4
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8
Port 9
Port 10
Port 11
Port 12
Port 13
947b
Name Type Version Admin. St. PVC Count Signalin...
947d
<<back
Add...
Delete...
Refresh
Virtual Connections>>
Screenmark
959
Server: 192.168.1.229
Mode: On-line
Profile: patty
Requesting Virtual ATM Interfaces for ATM Interface: ATM-Path2_11/4/10

FIG. 5S

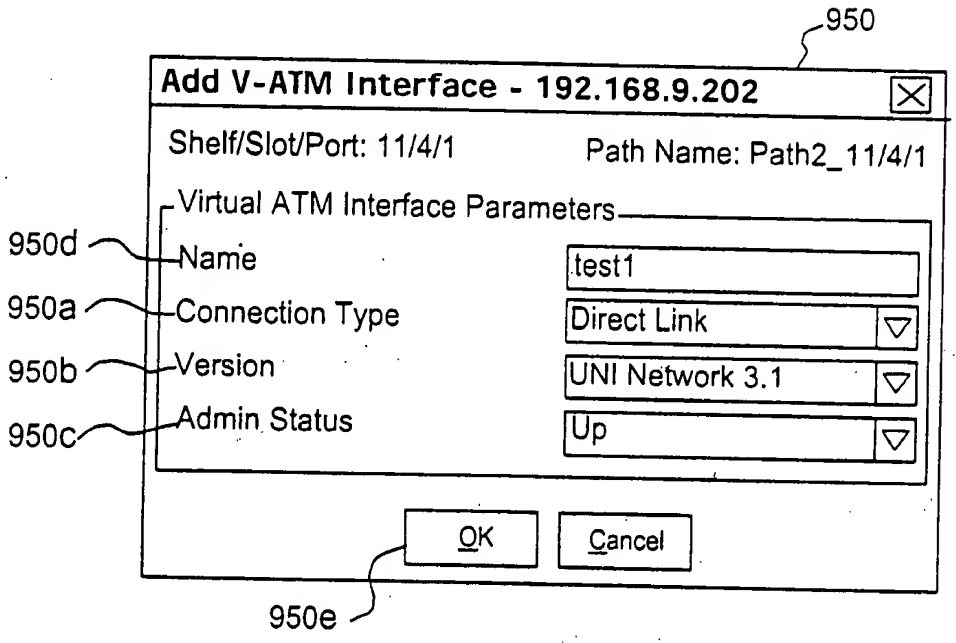

950
Add V-ATM Interface - 192.168.9.202
Shelf/Slot/Port: 11/4/1
Path Name: Path2_11/4/1
Virtual ATM Interface Parameters
950d
Name
test1
950a
Connection Type
Direct Link
950b
Version
UNI Network 3.1
950c
Admin Status
Up
OK
Cancel
950e

FIG. 5T

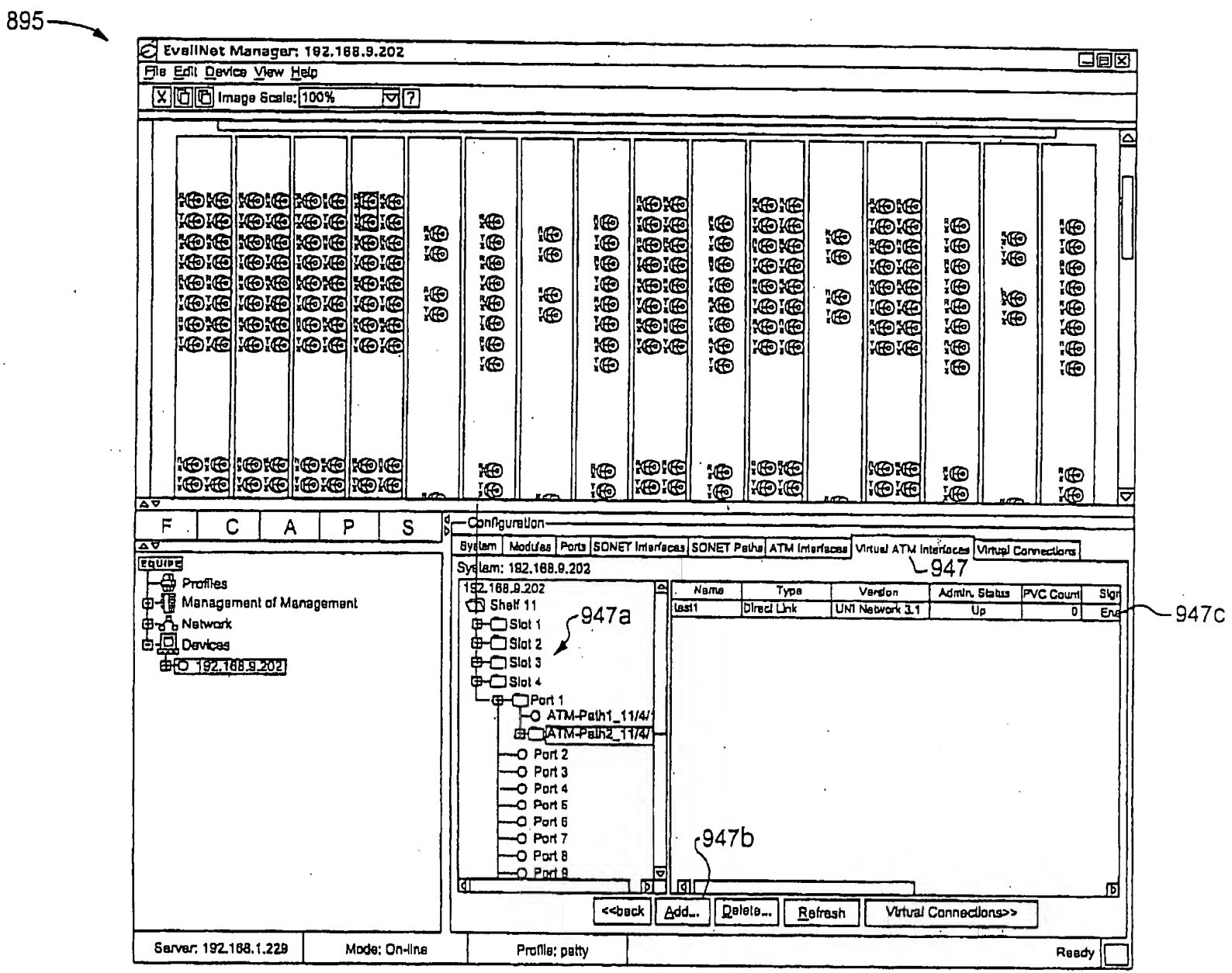

895
EvalINet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
947
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.202
Shelf 11
947a
Slot 1
Slot 2
Slot 3
Slot 4
Port 1
ATM-Path1_11/4/1
ATM-Path2_11/4/1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8
Port 9
Name Type Version Admin. Status PVC Count Sig
last1 Direct Link UNI Network 3.1 Up 0 Ena
947c
947b
<<back Add... Delete... Refresh Virtual Connections>>
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 5U

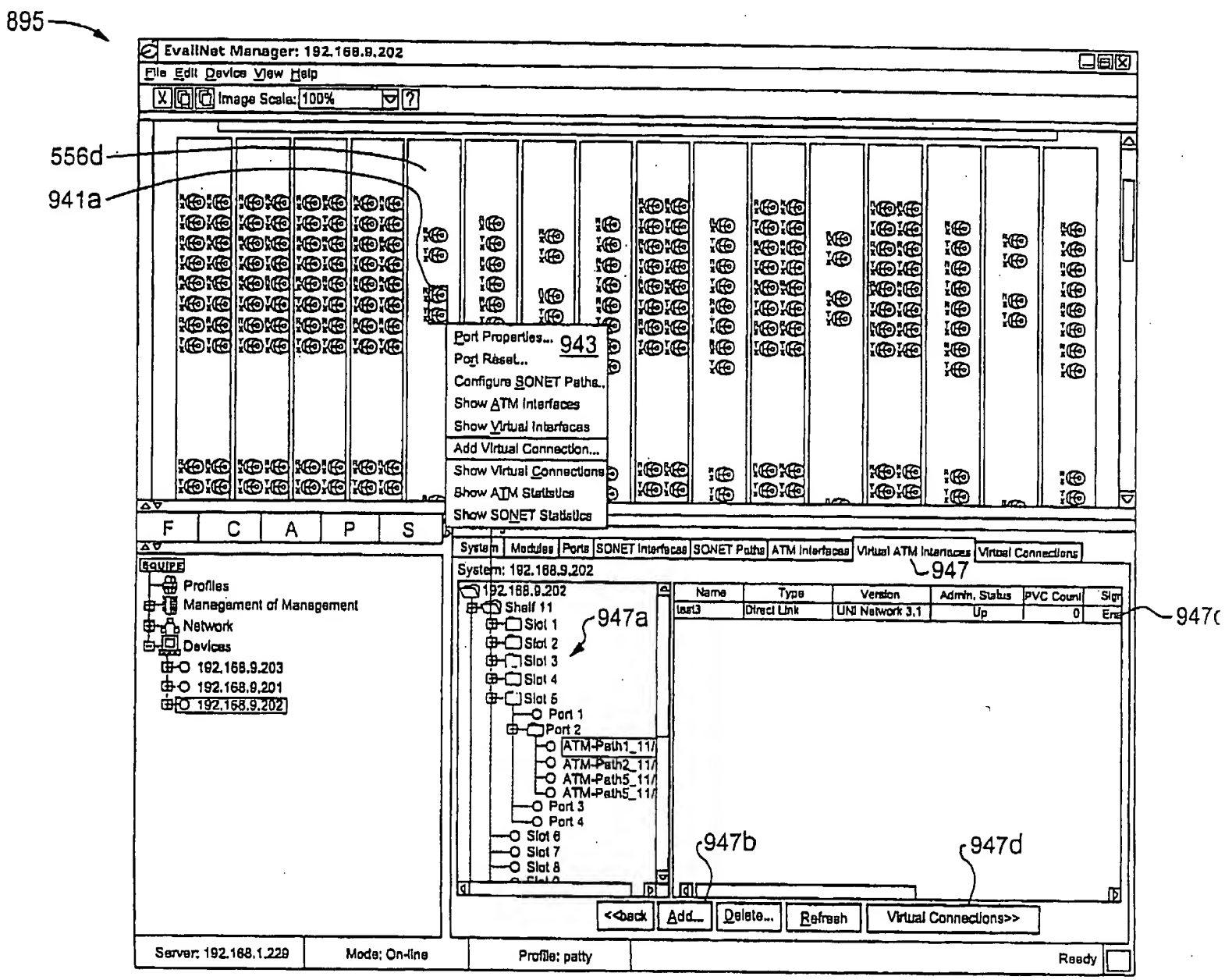

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
556d
941a
Port Properties... 943
Port Reset...
Configure SONET Paths...
Show ATM Interfaces
Show Virtual Interfaces
Add Virtual Connection...
Show Virtual Connections
Show ATM Statistics
Show SONET Statistics
F C A P S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.203
192.168.9.201
192.168.9.202
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
947
192.168.9.202
Shelf 11
947a
Slot 1
Slot 2
Slot 3
Slot 4
Slot 5
Port 1
Port 2
ATM-Path1_11/
ATM-Path2_11/
ATM-Path5_11/
ATM-Path5_11/
Port 3
Port 4
Slot 6
Slot 7
Slot 8
Name Type Version Admin. Status PVC Count Sign
test3 Direct Link UNI Network 3.1 Up 0 Ena
947c
947b
947d
<<back
Add...
Delete...
Refresh
Virtual Connections>>
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 5V

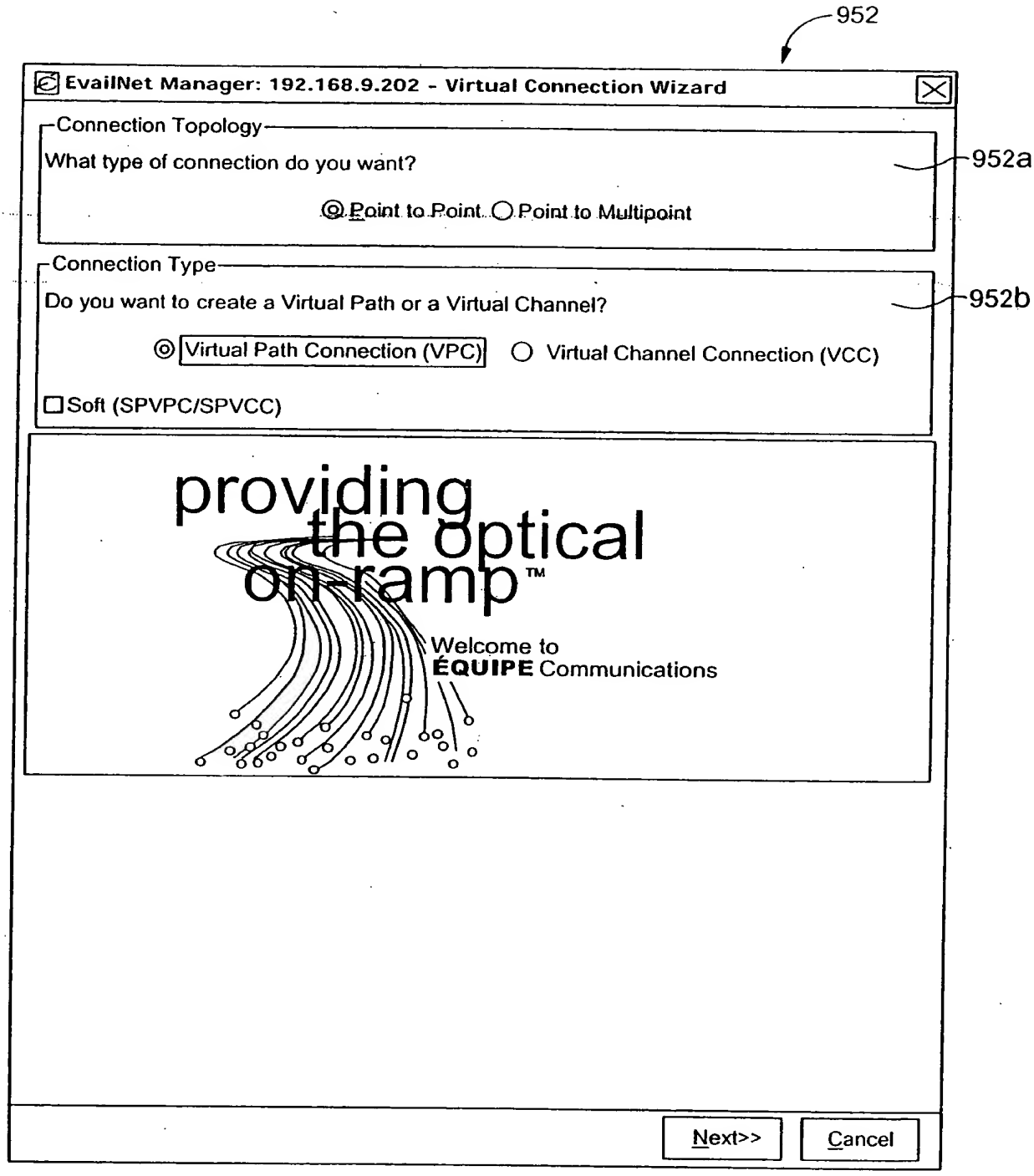

952
EvailNet Manager: 192.168.9.202 - Virtual Connection Wizard
Connection Topology
What type of connection do you want?
Point to Point
Point to Multipoint
952a
Connection Type
Do you want to create a Virtual Path or a Virtual Channel?
Virtual Path Connection (VPC)
Virtual Channel Connection (VCC)
Soft (SPVPC/SPVCC)
952b
providing the optical on-ramp™
Welcome to
ÉQUIPE Communications
Next>>
Cancel

FIG. 5W

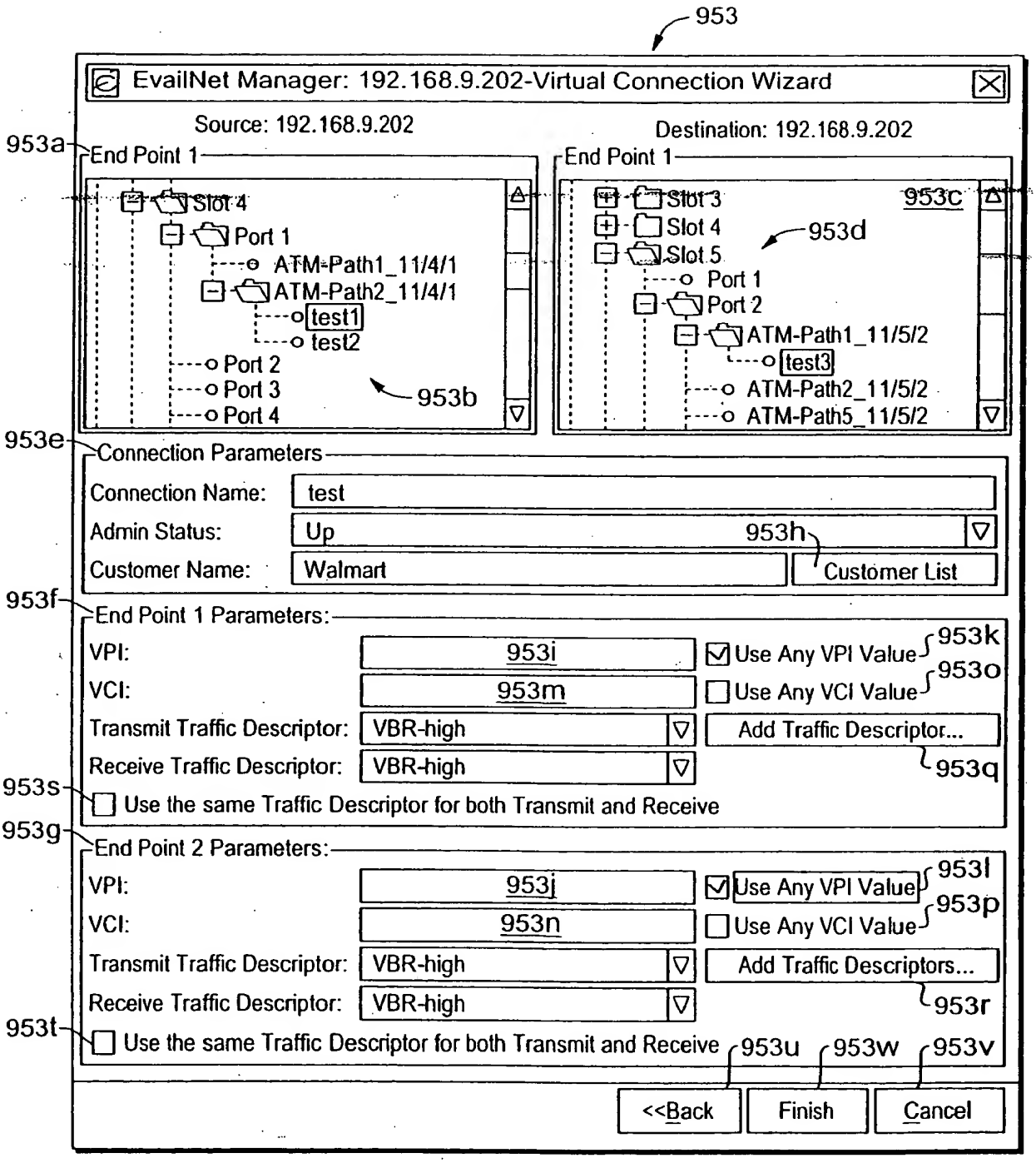

953
EvailNet Manager: 192.168.9.202-Virtual Connection Wizard
Source: 192.168.9.202
Destination: 192.168.9.202
953a
End Point 1
End Point 1
Slot 4
Port 1
ATM-Path1_11/4/1
ATM-Path2_11/4/1
test1
test2
Port 2
Port 3
Port 4
953b
Slot 3
953c
Slot 4
953d
Slot 5
Port 1
Port 2
ATM-Path1_11/5/2
test3
ATM-Path2_11/5/2
ATM-Path5_11/5/2
953e
Connection Parameters
Connection Name:
test
Admin Status:
Up
953h
Customer Name:
Walmart
Customer List
953f
End Point 1 Parameters:
VPI:
953i
Use Any VPI Value
953k
VCI:
953m
Use Any VCI Value
953o
Transmit Traffic Descriptor:
VBR-high
Add Traffic Descriptor...
Receive Traffic Descriptor:
VBR-high
953q
953s
Use the same Traffic Descriptor for both Transmit and Receive
953g
End Point 2 Parameters:
VPI:
953j
Use Any VPI Value
953l
VCI:
953n
Use Any VCI Value
953p
Transmit Traffic Descriptor:
VBR-high
Add Traffic Descriptors...
Receive Traffic Descriptor:
VBR-high
953r
953t
Use the same Traffic Descriptor for both Transmit and Receive
953u
953w
953v
<<Back
Finish
Cancel

FIG. 5X

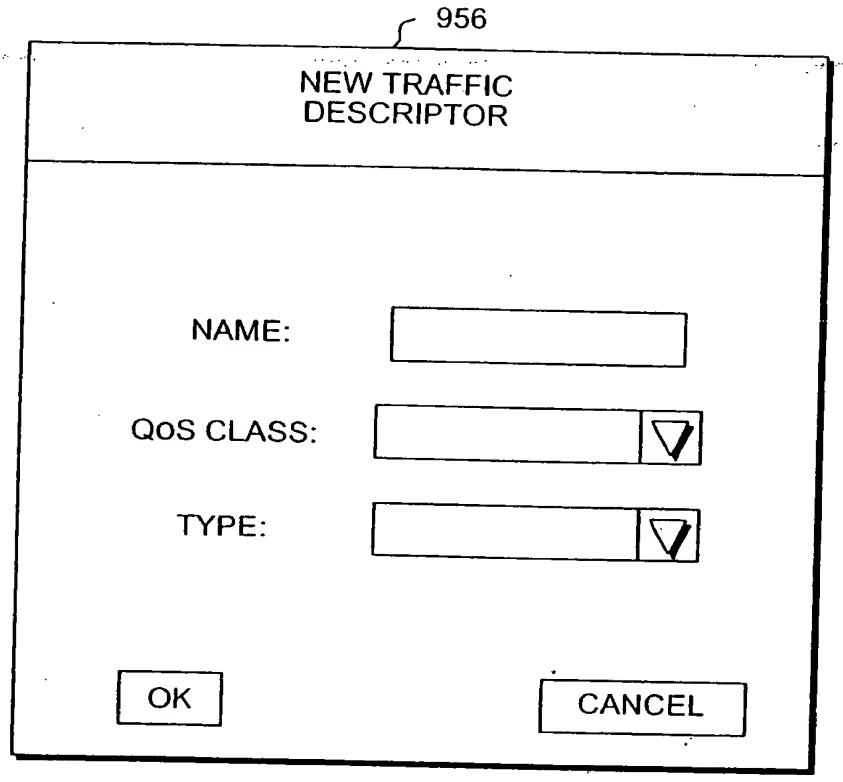


FIG. 5Y

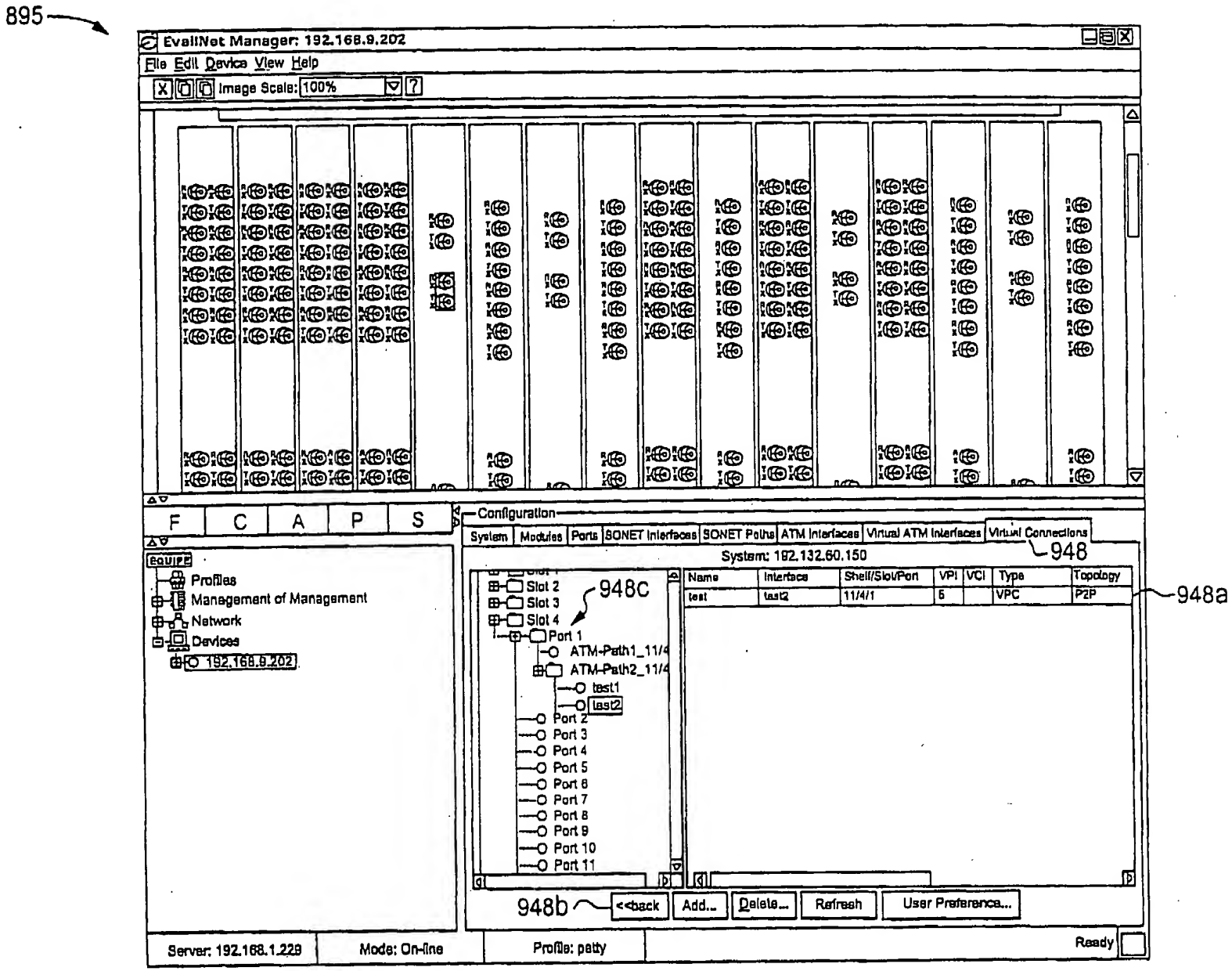

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
948
System: 192.132.60.150
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.202
Slot 2
Slot 3
Slot 4
948c
Port 1
ATM-Path1_11/4
ATM-Path2_11/4
test1
test2
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8
Port 9
Port 10
Port 11
Name Interface Shelf/Slot/Port VPI VCI Type Topology
test test2 11/4/1 5 VPC P2P
948a
948b
<<back
Add...
Delete...
Refresh
User Preference...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 5Z

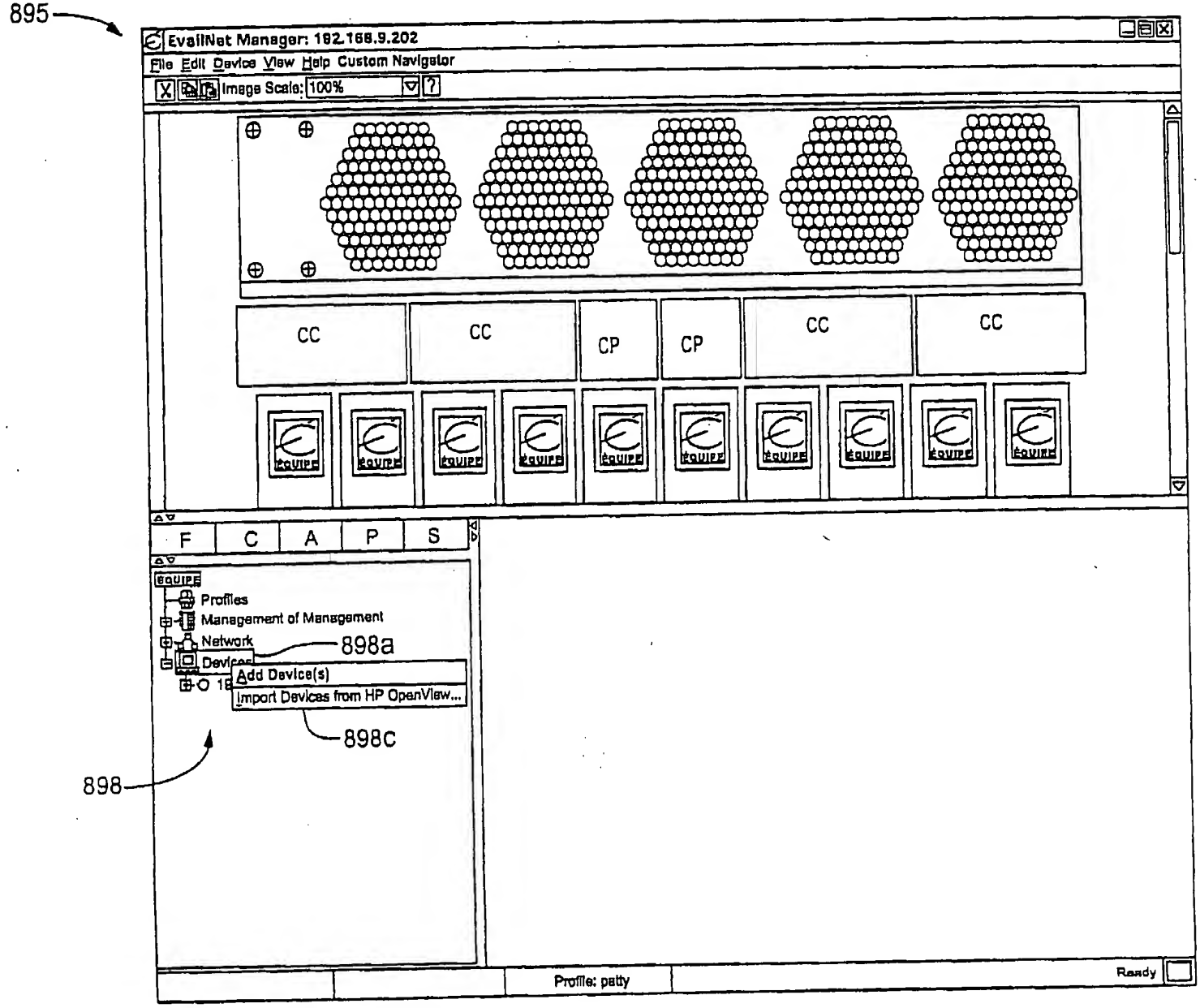

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help Custom Navigator
Image Scale: 100%
CC
CC
CP
CP
CC
CC
F
C
A
P
S
Profiles
Management of Management
Network
Devices
Add Device(s)
Import Devices from HP OpenView...
898a
898c
898
Profile: patty
Ready

FIG. 6A

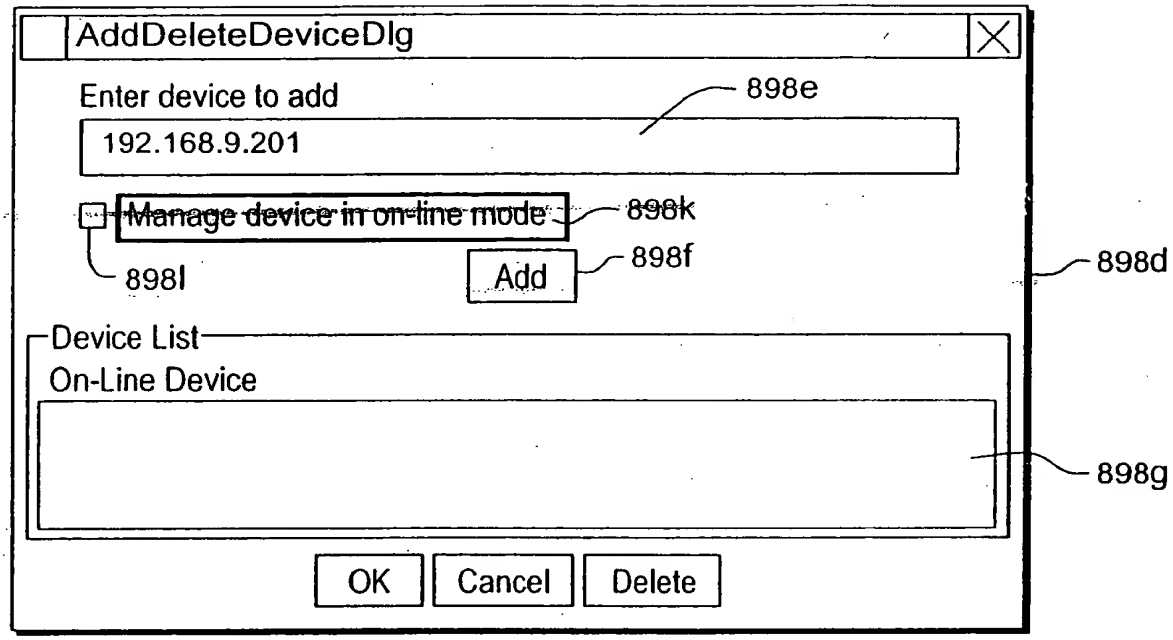

AddDeleteDeviceDlg
Enter device to add
898e
192.168.9.201
Manage device in on-line mode
898k
898l
Add
898f
898d
Device List
On-Line Device
898g
OK
Cancel
Delete

FIG. 6B

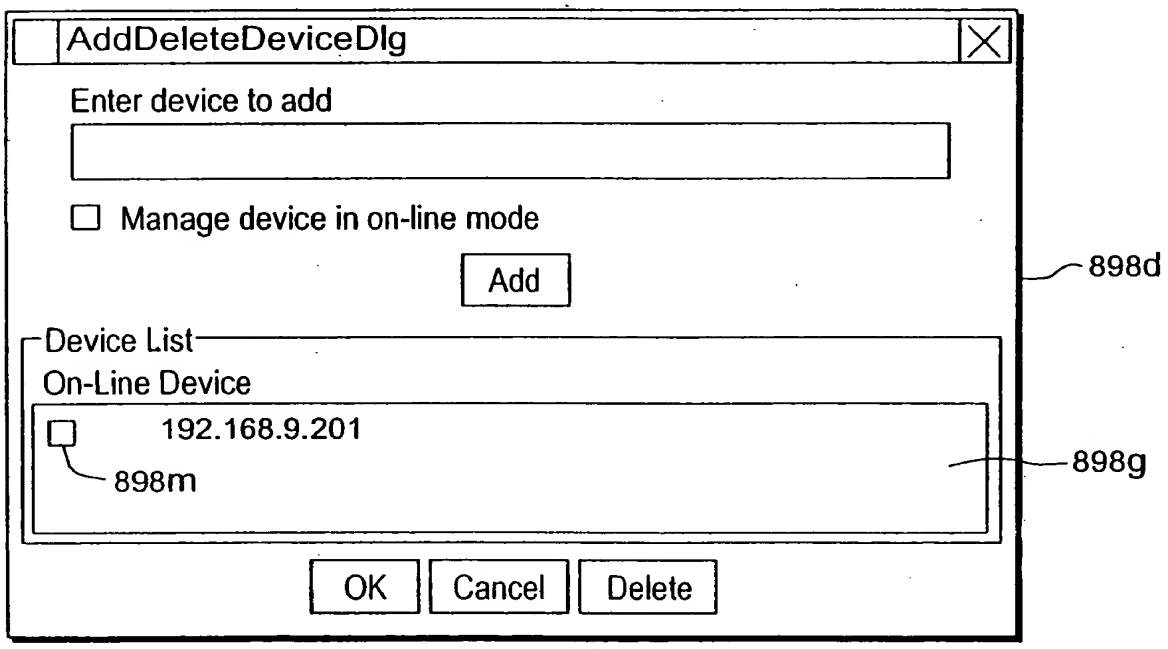

AddDeleteDeviceDlg
Enter device to add
Manage device in on-line mode
Add
898d
Device List
On-Line Device
192.168.9.201
898m
898g
OK
Cancel
Delete

FIG. 6C

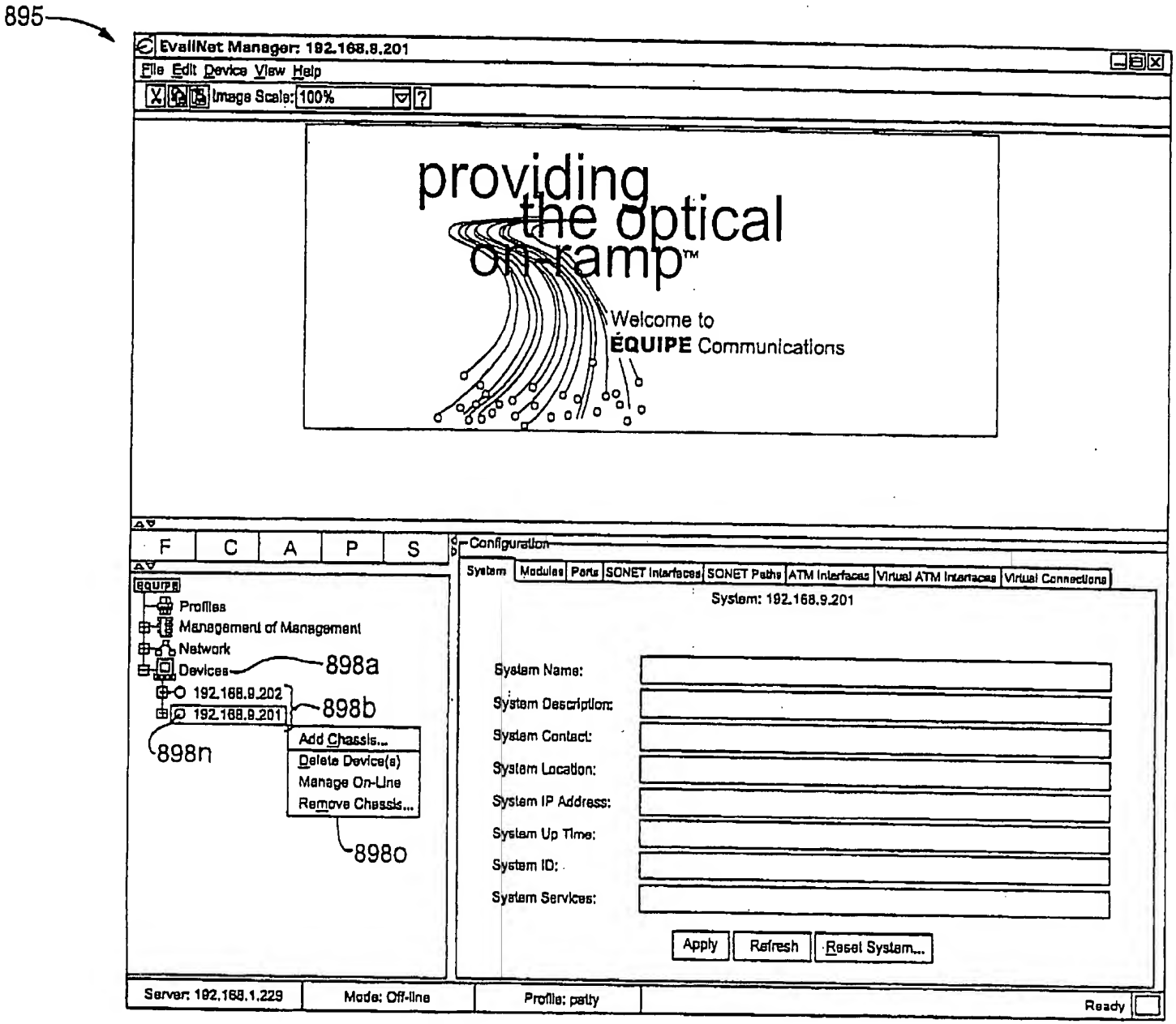

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
providing the optical on-ramp™
Welcome to
EQUIPE Communications
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
EQUIPE
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
898b
192.168.9.201
898n
Add Chassis...
Delete Device(s)
Manage On-Line
Remove Chassis...
898o
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6D

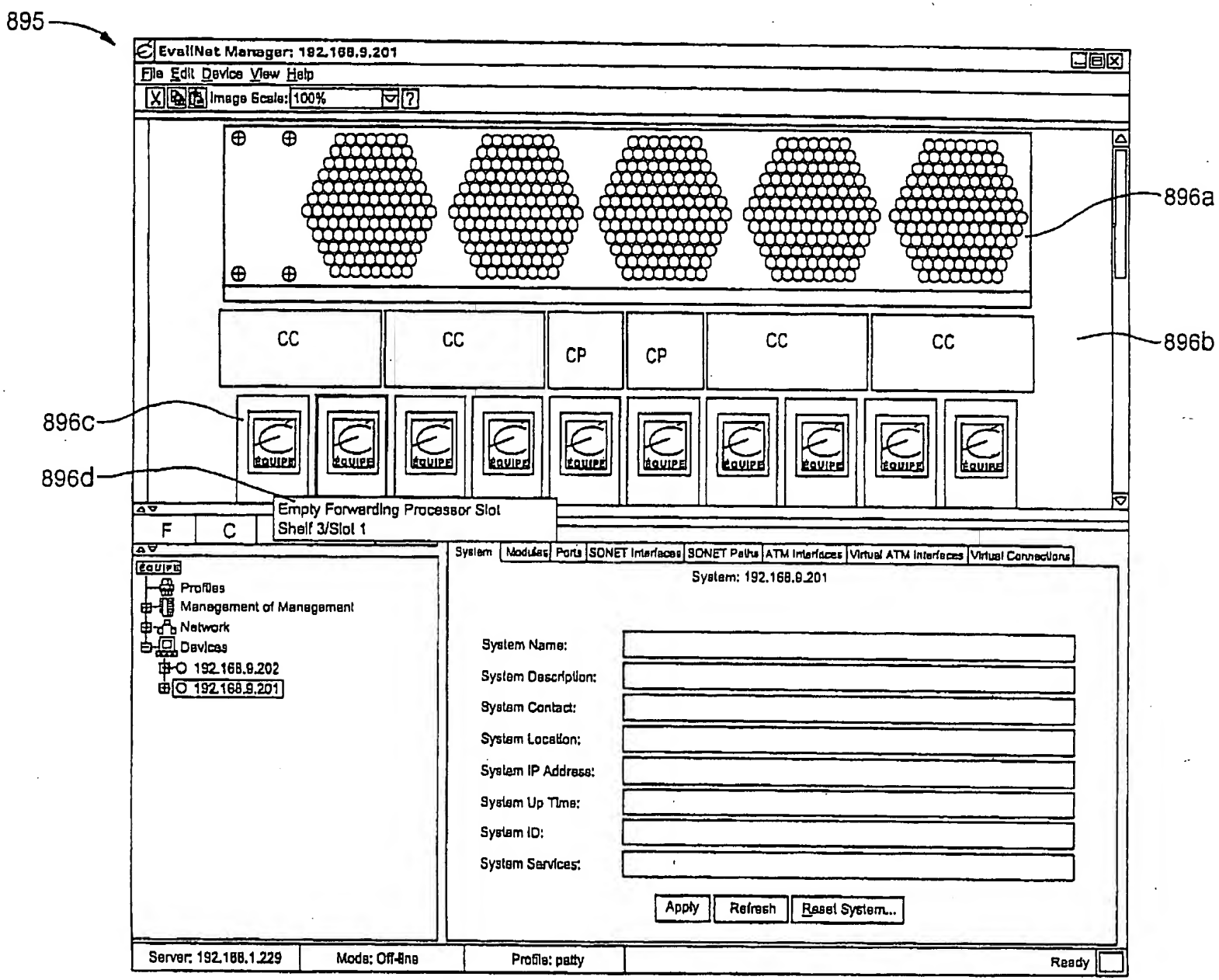

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
896a
CC
CC
CP
CP
CC
CC
896b
896c
896d
Empty Forwarding Processor Slot
Shelf 3/Slot 1
F
C
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6E

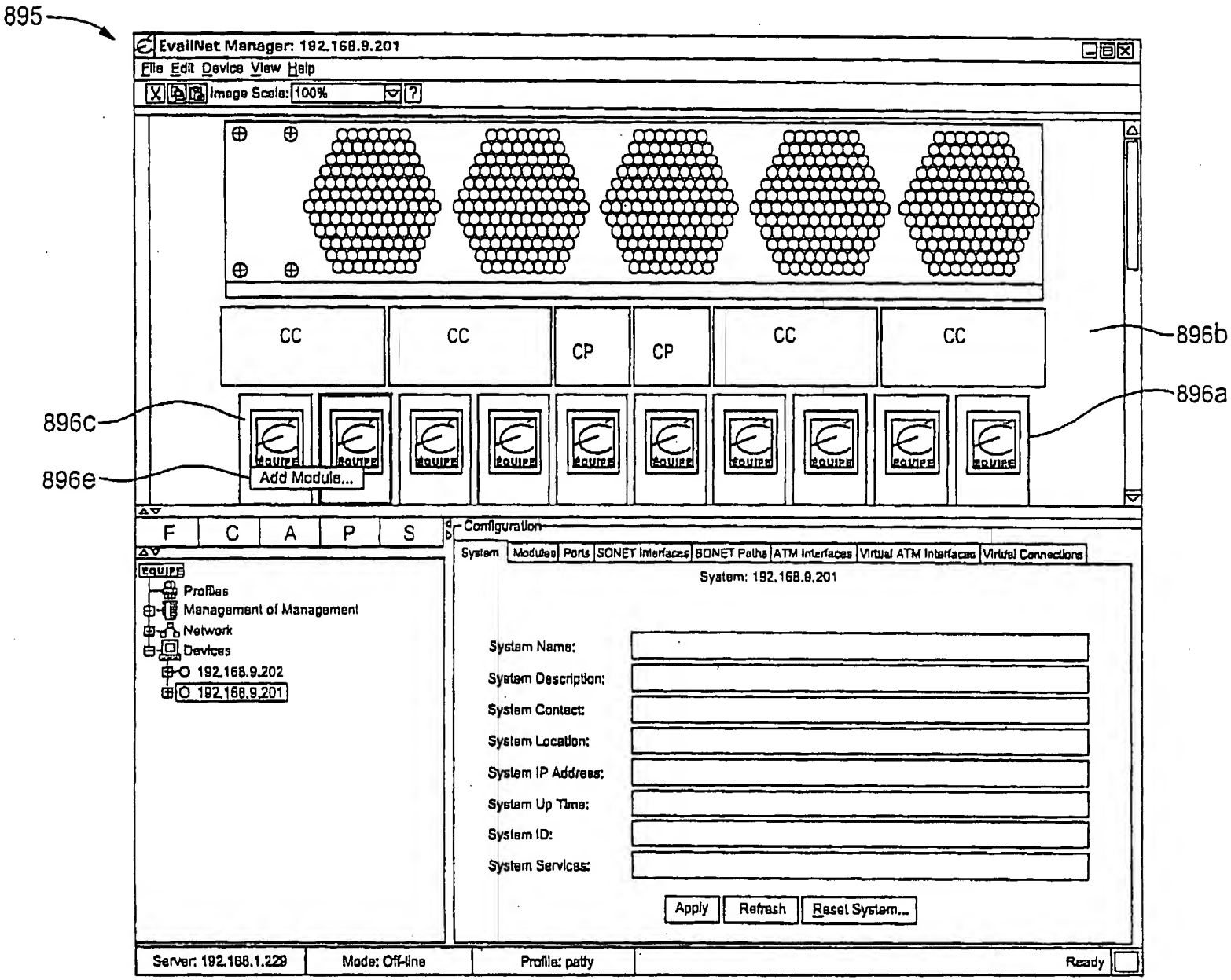

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
CC
CC
CP
CP
CC
CC
896b
896a
896c
896e
Add Module...
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6F

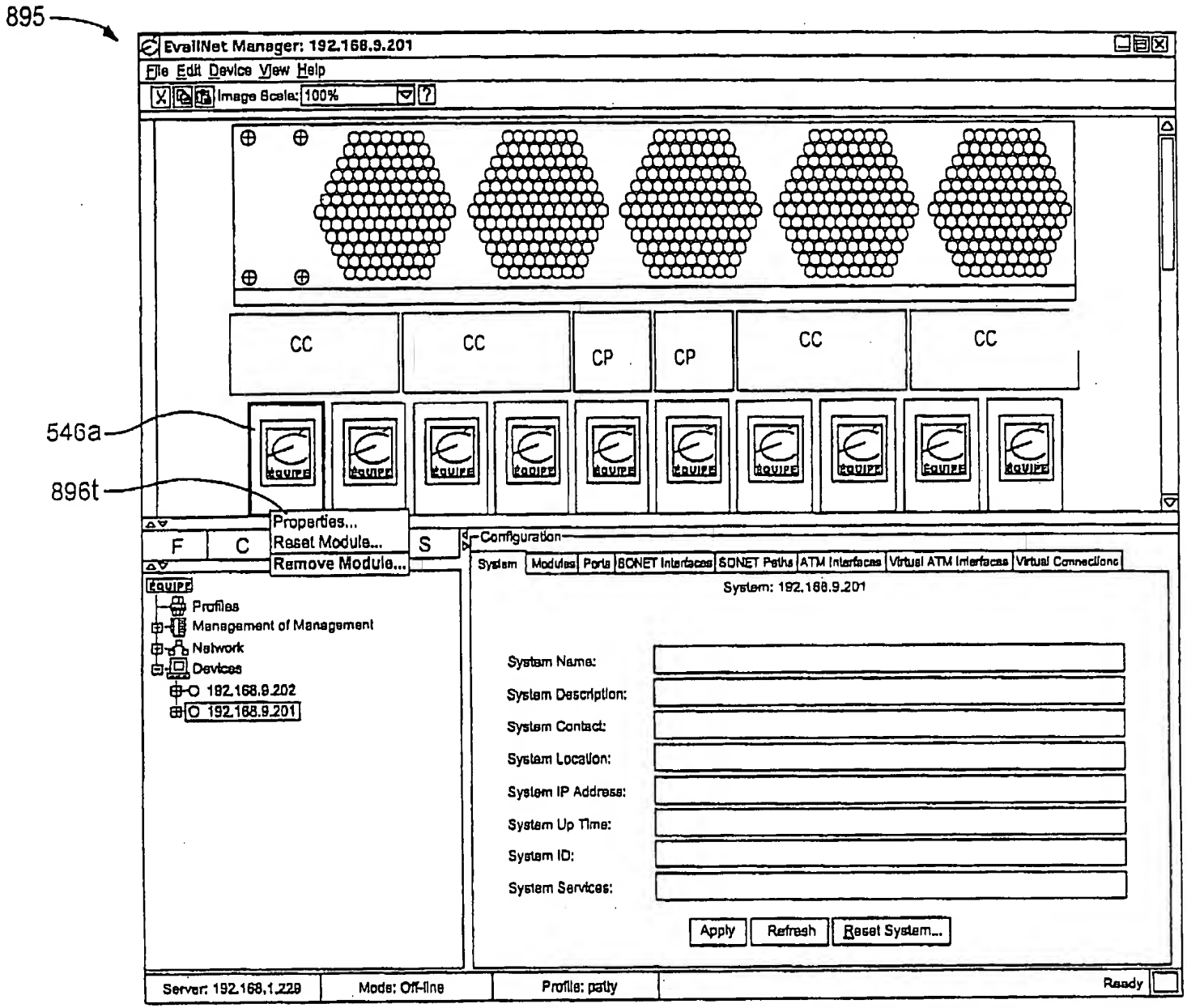

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
CC
CC
CP
CP
CC
CC
546a
896t
Properties...
Reset Module...
Remove Module...
F
C
S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6G

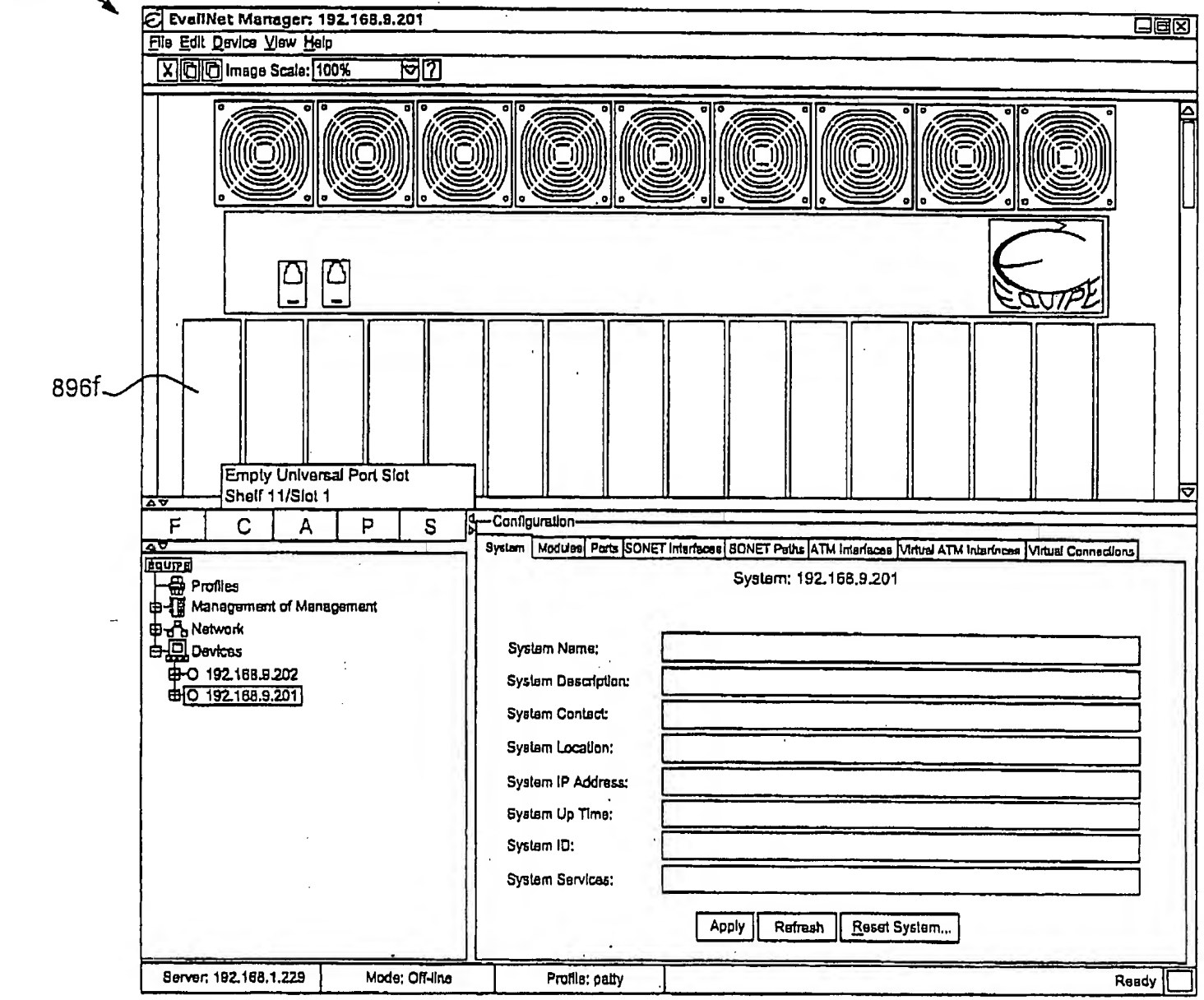

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
896f
Empty Universal Port Slot
Shelf 11/Slot 1
F
C
A
P
S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6H

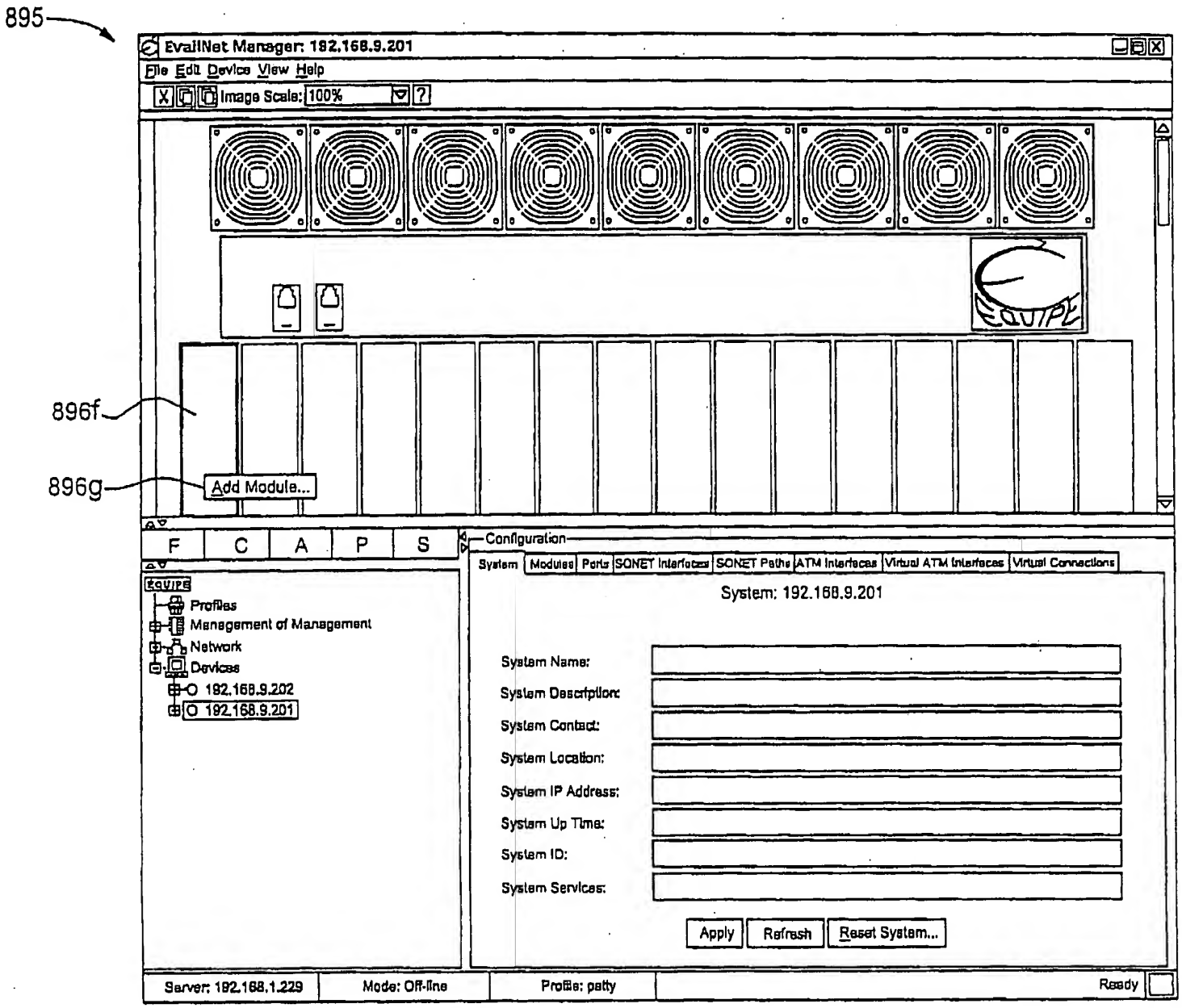

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
896f
896g
Add Module...
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6I

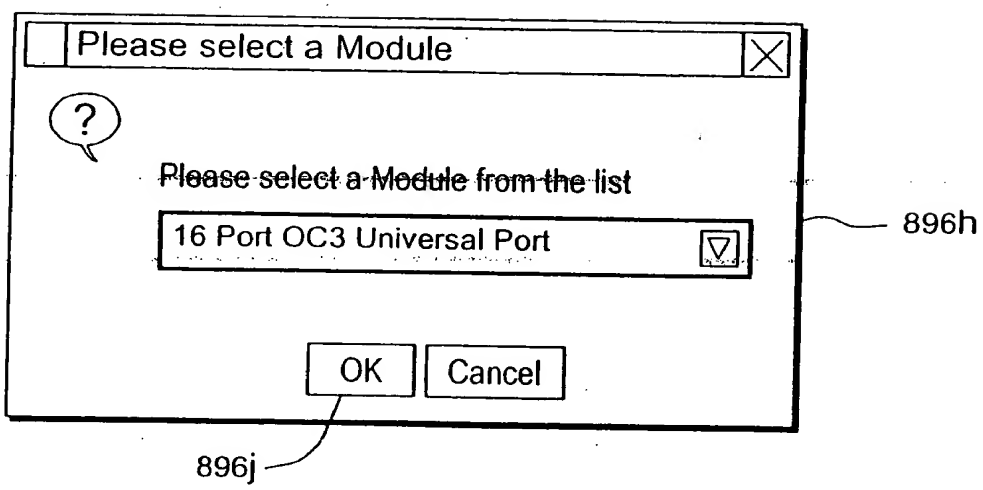

Please select a Module
Please select a Module from the list
16 Port OC3 Universal Port
OK
Cancel
896h
896j

FIG. 6J

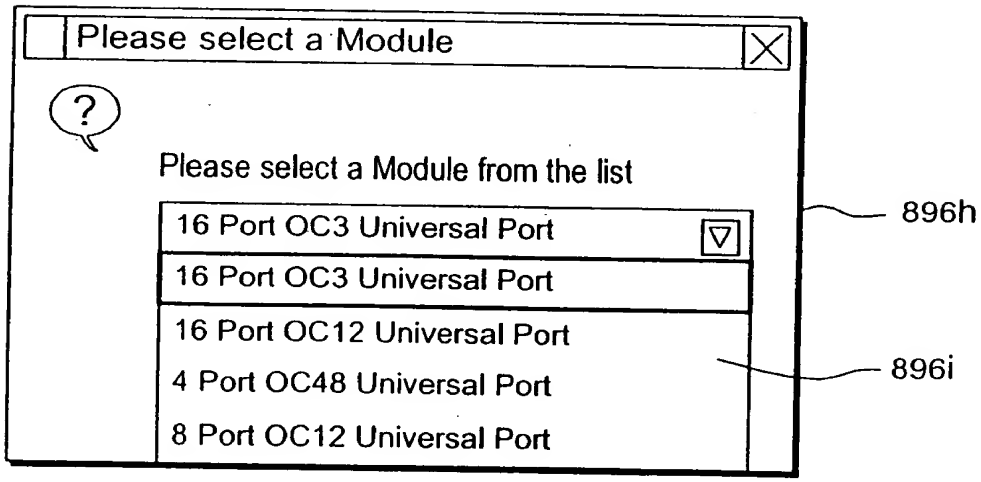

Please select a Module
Please select a Module from the list
16 Port OC3 Universal Port
16 Port OC3 Universal Port
16 Port OC12 Universal Port
4 Port OC48 Universal Port
8 Port OC12 Universal Port
896h
896i

FIG. 6K

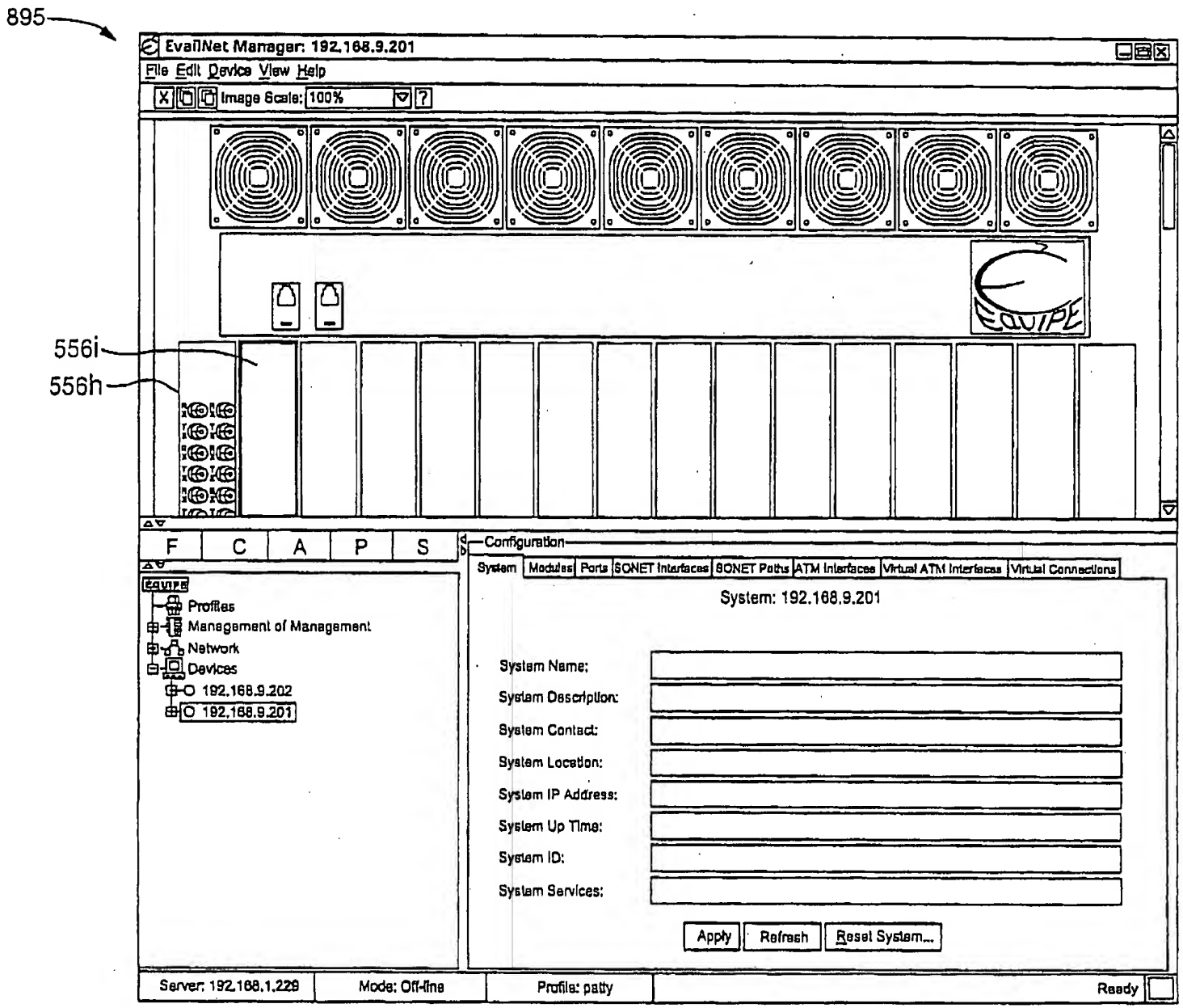

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
556i
556h
F
C
A
P
S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6L

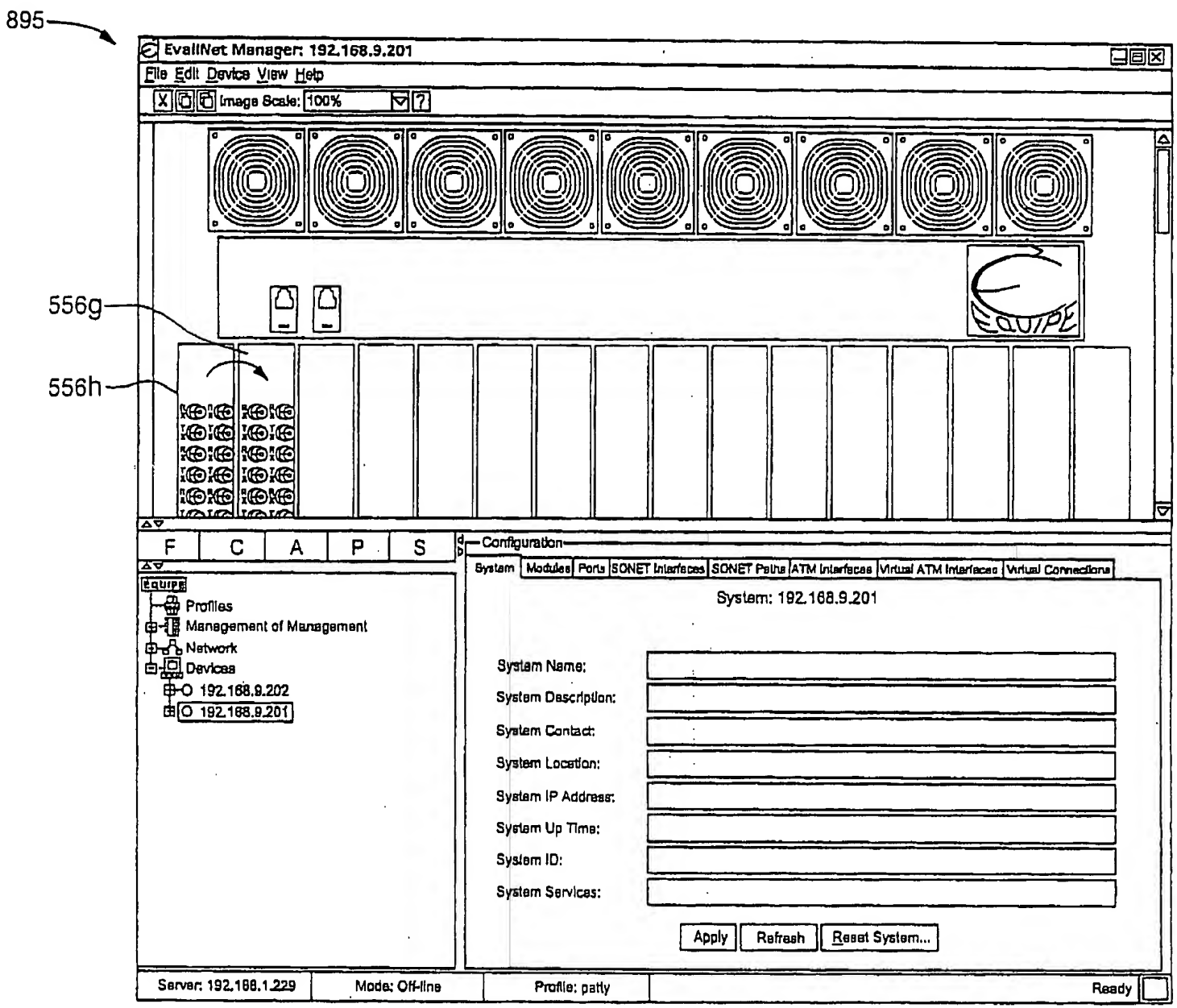

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
556g
556h
F
C
A
P
S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6M

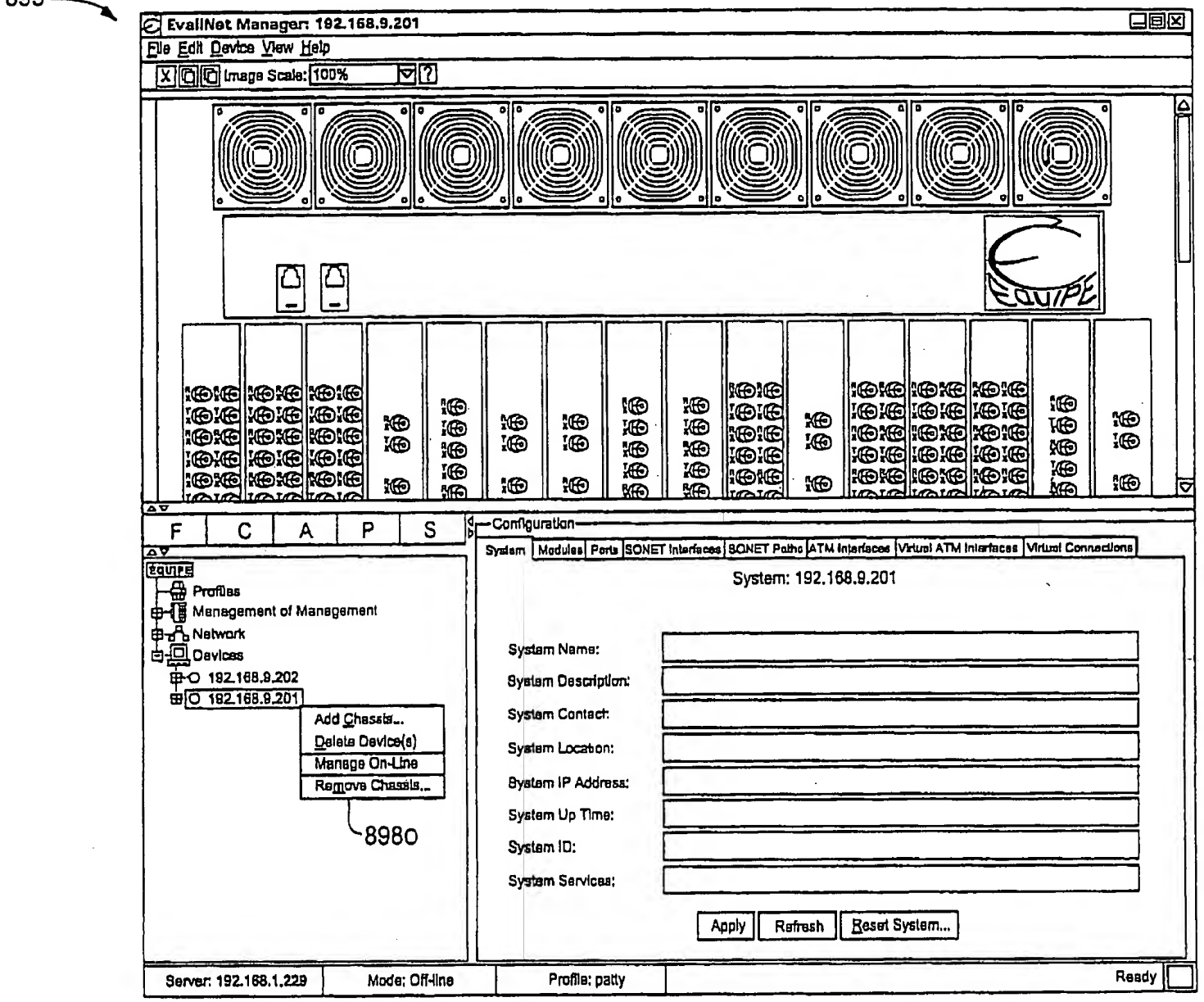

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Add Chassis...
Delete Device(s)
Manage On-Line
Remove Chassis...
8980
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6N

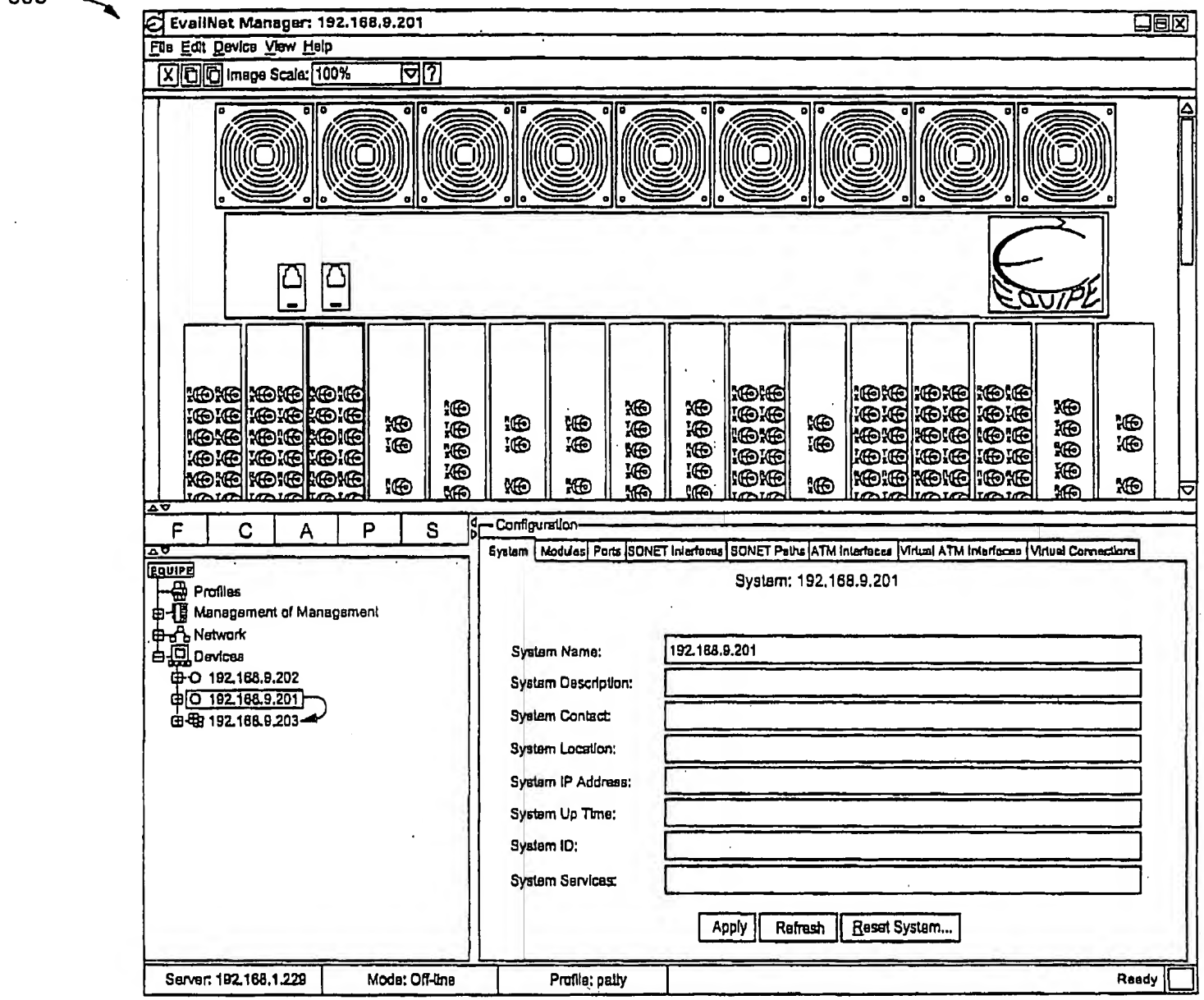

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
EQUIPE
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
192.168.9.203
System: 192.168.9.201
System Name: 192.168.9.201
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 60

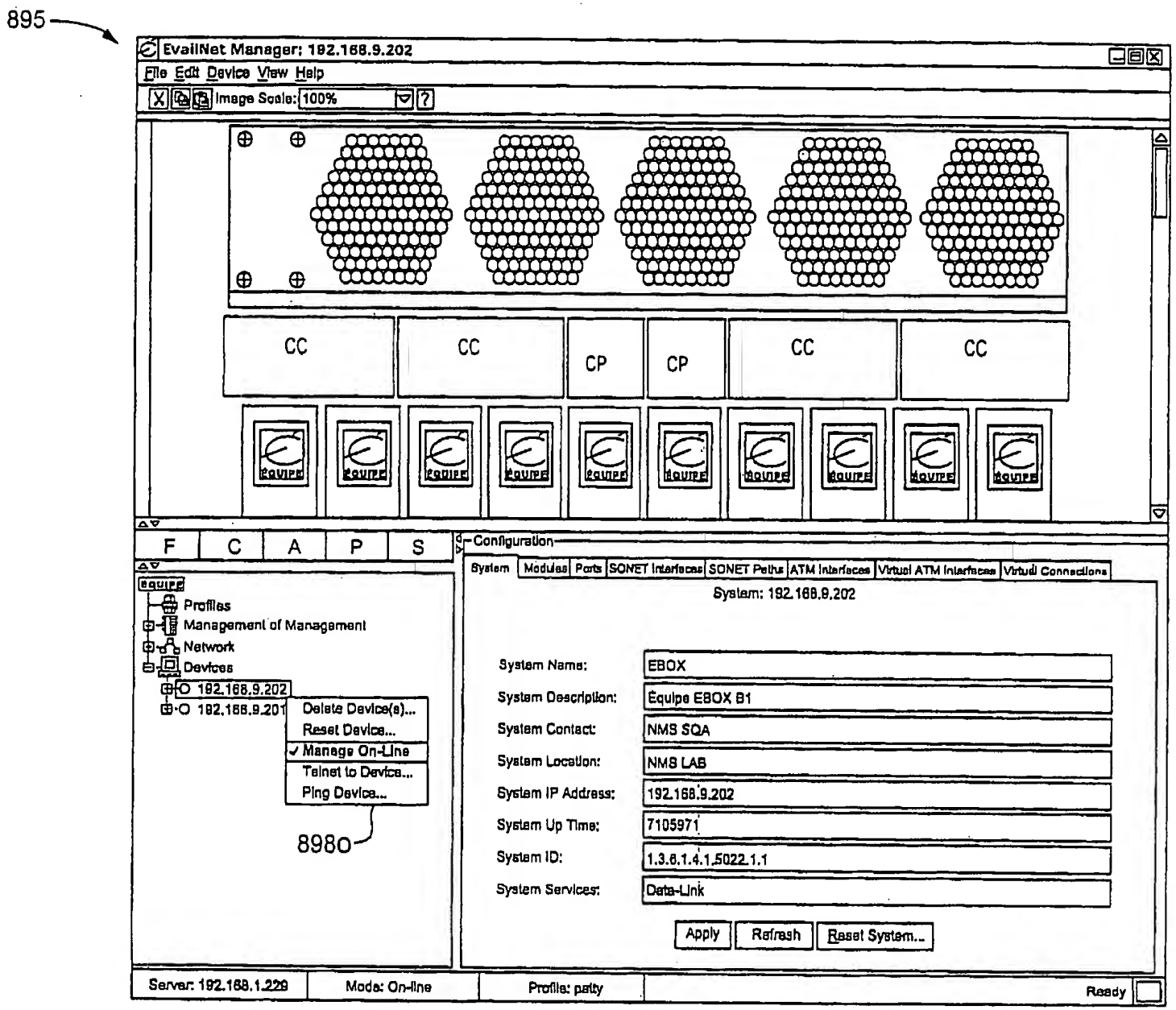

895
EvailNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
CC
CC
CP
CP
CC
CC
F
C
A
P
S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Delete Device(s)...
Reset Device...
Manage On-Line
Telnet to Device...
Ping Device...
8980
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
System Name:
EBOX
System Description:
Equipe EBOX B1
System Contact:
NMS SQA
System Location:
NMS LAB
System IP Address:
192.168.9.202
System Up Time:
7105971
System ID:
1.3.6.1.4.1.5022.1.1
System Services:
Data-Link
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 6P

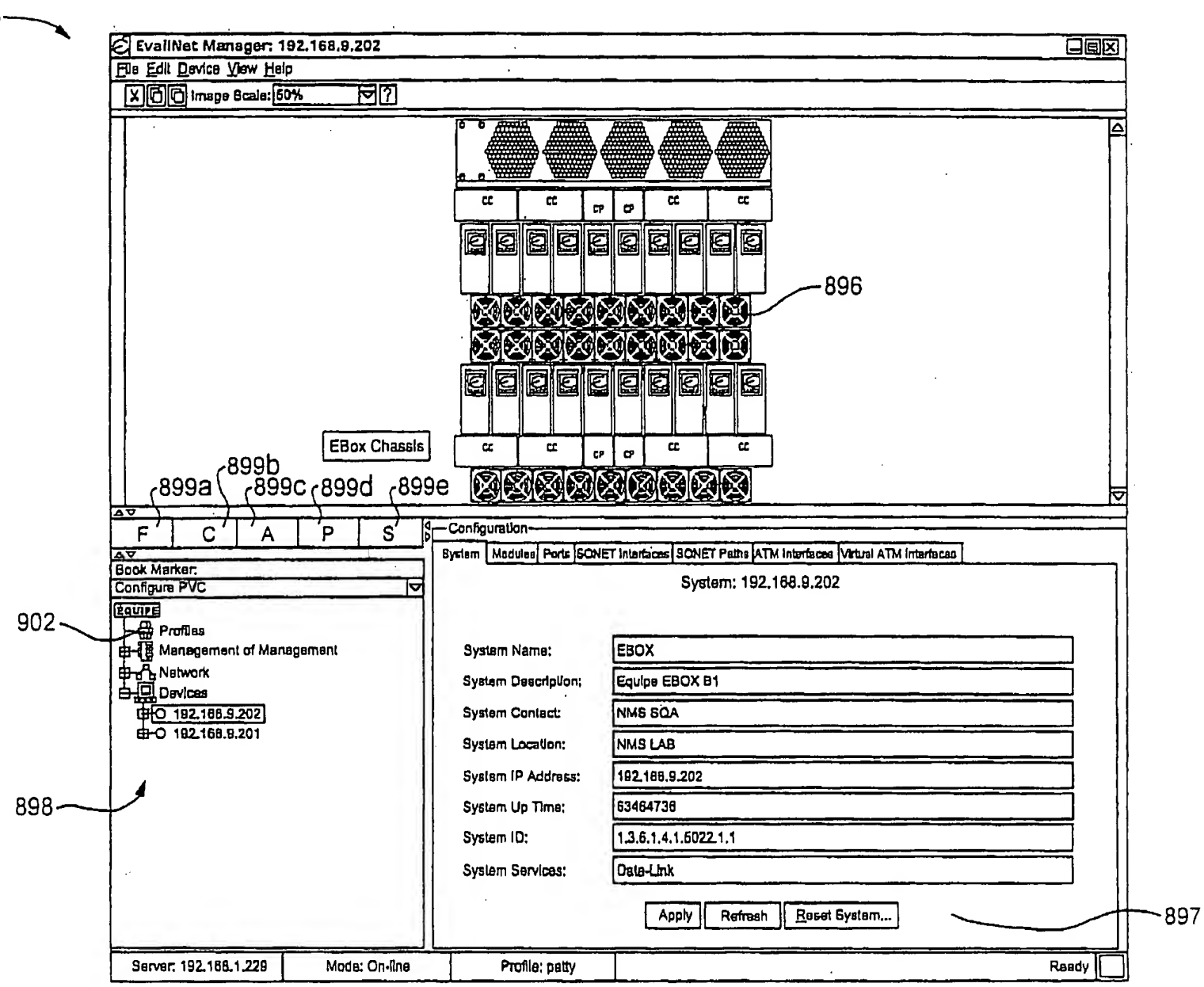

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 50%
896
EBox Chassis
899a
899b
899c
899d
899e
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
System: 192.168.9.202
Book Marker:
Configure PVC
902
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
898
System Name: EBOX
System Description: Equipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 63464736
System ID: 1.3.6.1.4.1.6022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 7A

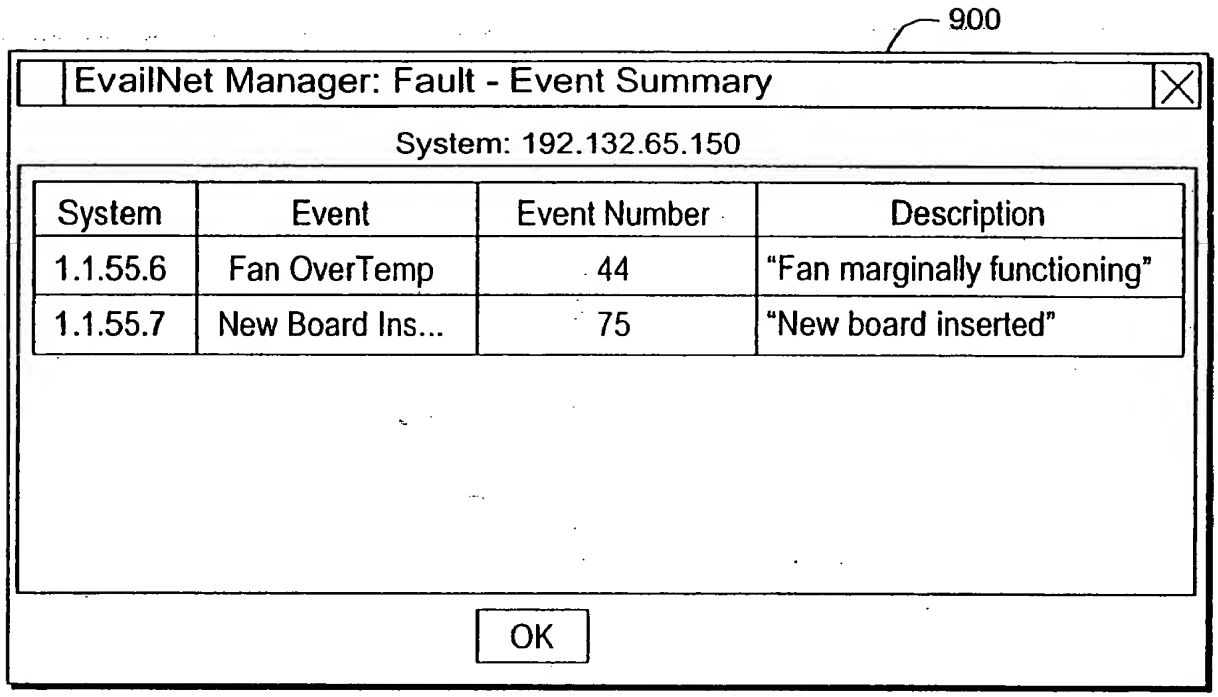

900
EvailNet Manager: Fault - Event Summary
System: 192.132.65.150
System
Event
Event Number
Description
1.1.55.6
Fan OverTemp
44
"Fan marginally functioning"
1.1.55.7
New Board Ins...
75
"New board inserted"
OK

FIG. 7B

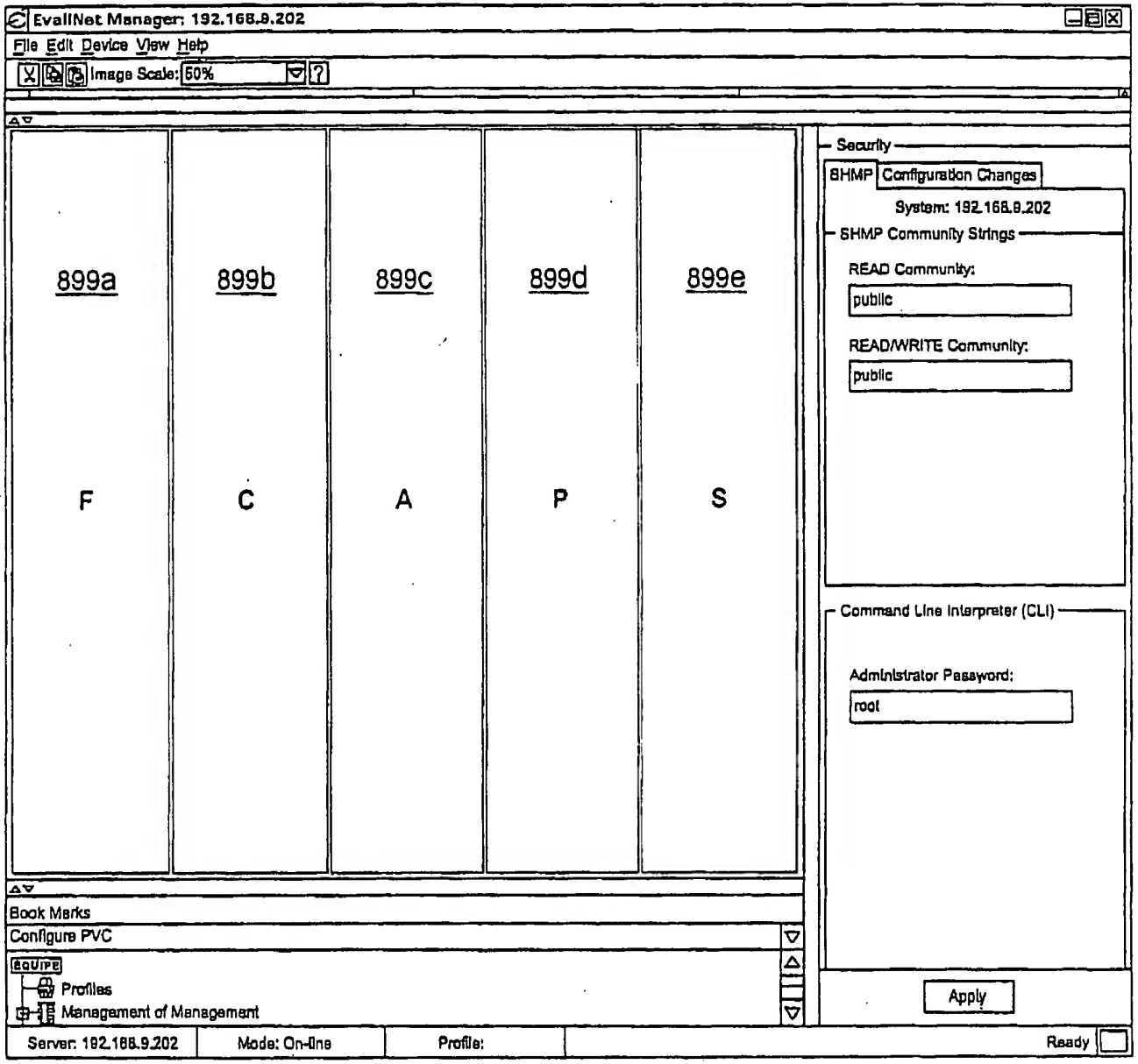

EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 50%
899a
899b
899c
899d
899e
F
C
A
P
S
Security
SHMP
Configuration Changes
System: 192.168.9.202
SHMP Community Strings
READ Community:
public
READ/WRITE Community:
public
Command Line Interpreter (CLI)
Administrator Password:
root
Apply
Book Marks
Configure PVC
EQUIPE
Profiles
Management of Management
Server: 192.168.9.202
Mode: On-line
Profile:
Ready

FIG. 7C

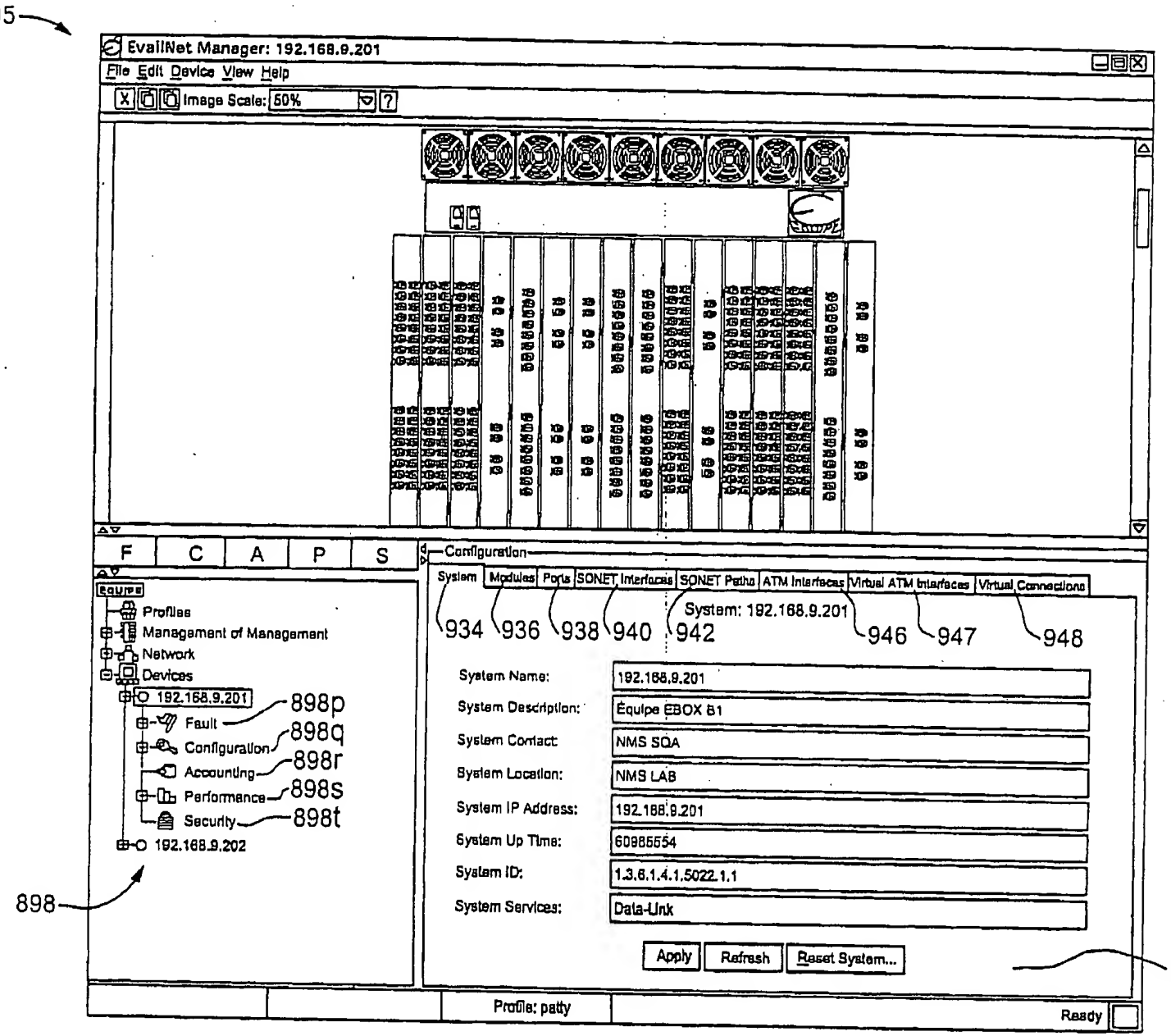

895
EvailNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
F
C
A
P
S
Equipe
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
Security
192.168.9.202
898p
898q
898r
898s
898t
898
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
934
936
938
940
942
946
947
948
System Name:
192.168.9.201
System Description:
Equipe EBOX B1
System Contact:
NMS SQA
System Location:
NMS LAB
System IP Address:
192.168.9.201
System Up Time:
60985554
System ID:
1.3.6.1.4.1.5022.1.1
System Services:
Data-Link
Apply
Refresh
Reset System...
897
Profile: patty
Ready

FIG. 7D

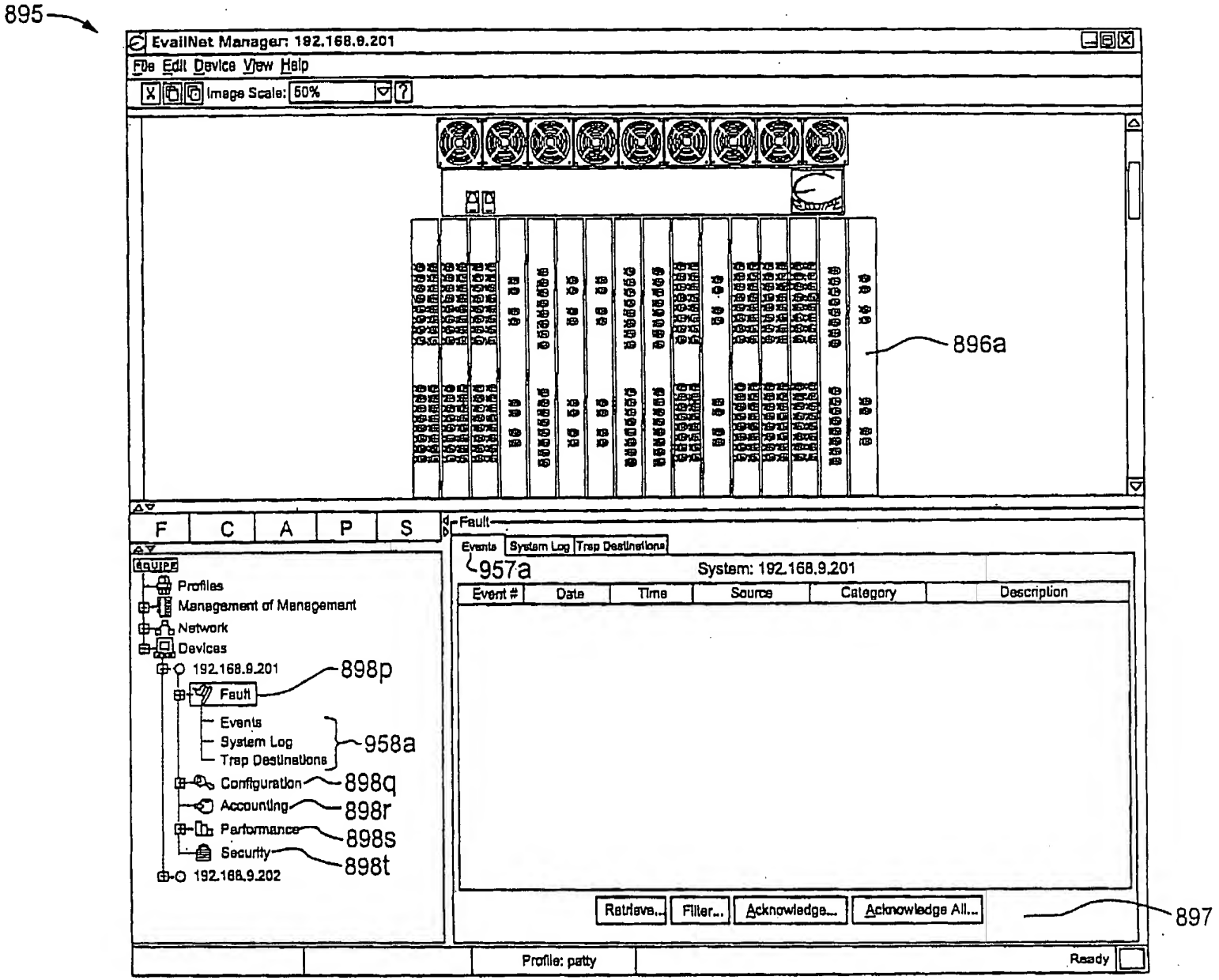

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
898p
Fault
Events
System Log
Trap Destinations
958a
Configuration
898q
Accounting
898r
Performance
898s
Security
898t
192.168.9.202
Fault
Events
System Log
Trap Destinations
957a
System: 192.168.9.201
Event #
Date
Time
Source
Category
Description
Retrieve...
Filter...
Acknowledge...
Acknowledge All...
897
Profile: patty
Ready

FIG. 7E

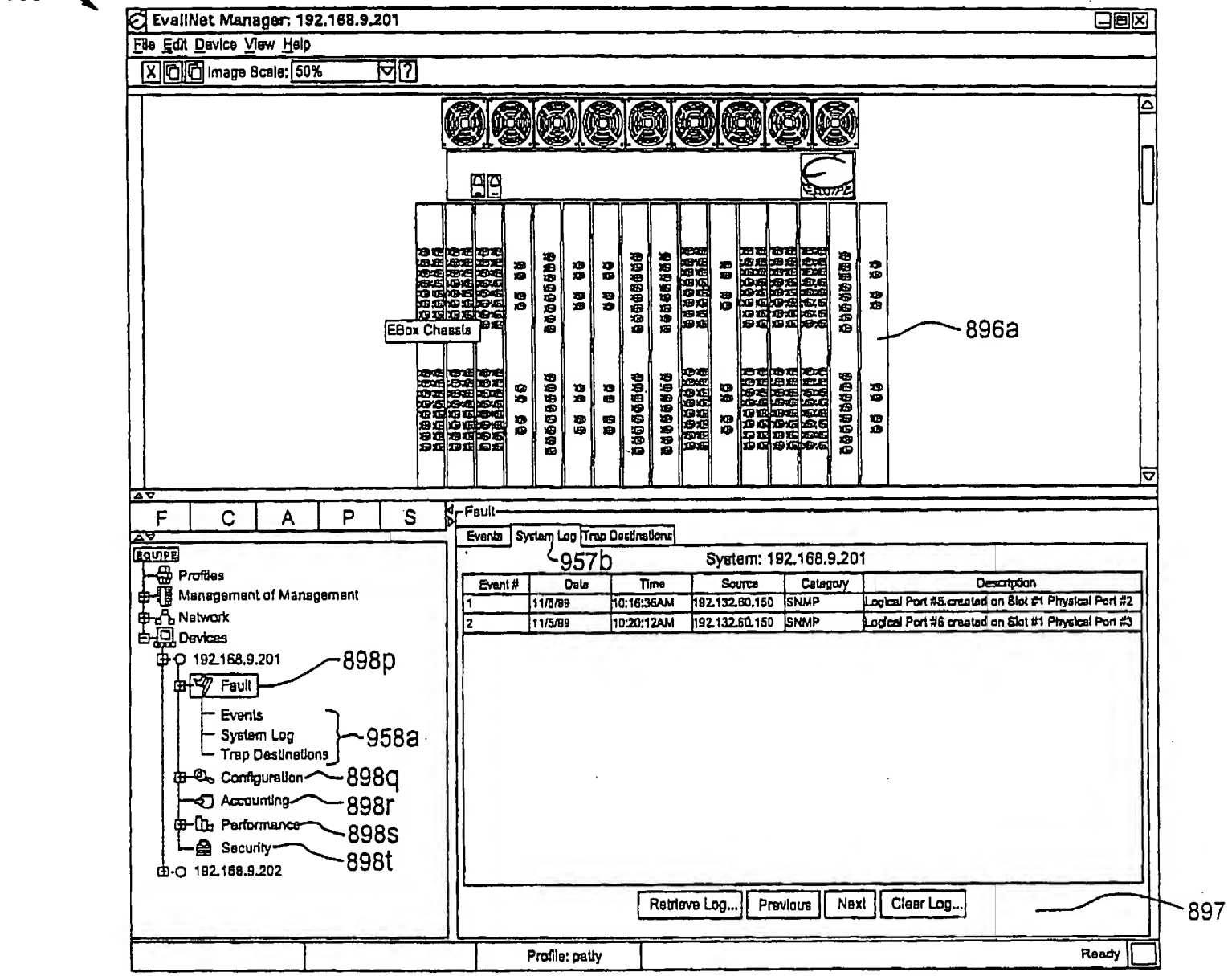

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
EBox Chassis
896a
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
898p
Fault
Events
System Log
Trap Destinations
958a
Configuration
898q
Accounting
898r
Performance
898s
Security
898t
192.168.9.202
Fault
Events
System Log
Trap Destinations
957b
System: 192.168.9.201
Event # | Date | Time | Source | Category | Description
1 | 11/5/99 | 10:16:36AM | 192.132.60.150 | SNMP | Logical Port #5 created on Slot #1 Physical Port #2
2 | 11/5/99 | 10:20:12AM | 192.132.60.150 | SNMP | Logical Port #6 created on Slot #1 Physical Port #3
Retrieve Log...
Previous
Next
Clear Log...
897
Profile: patty
Ready

FIG. 7F

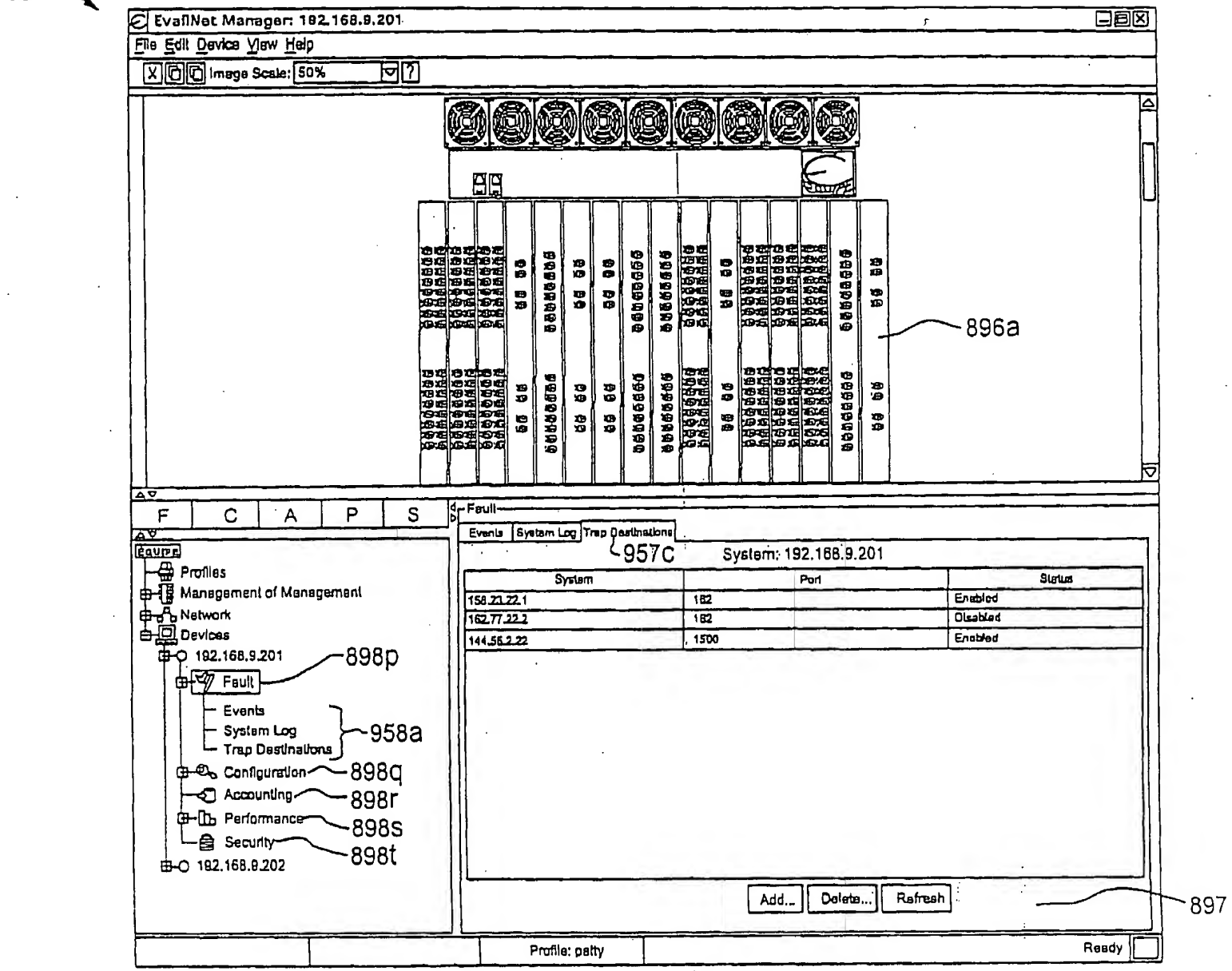

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
Equipt
Profiles
Management of Management
Network
Devices
192.168.9.201
898p
Fault
Events
System Log
Trap Destinations
958a
Configuration
898q
Accounting
898r
Performance
898s
Security
898t
192.168.9.202
Fault
Events
System Log
Trap Destinations
957c
System: 192.168.9.201
System
Port
Status
158.21.22.1
182
Enabled
162.77.22.2
182
Disabled
144.56.2.22
1500
Enabled
Add...
Delete...
Refresh
897
Profile: patty
Ready

FIG. 7G

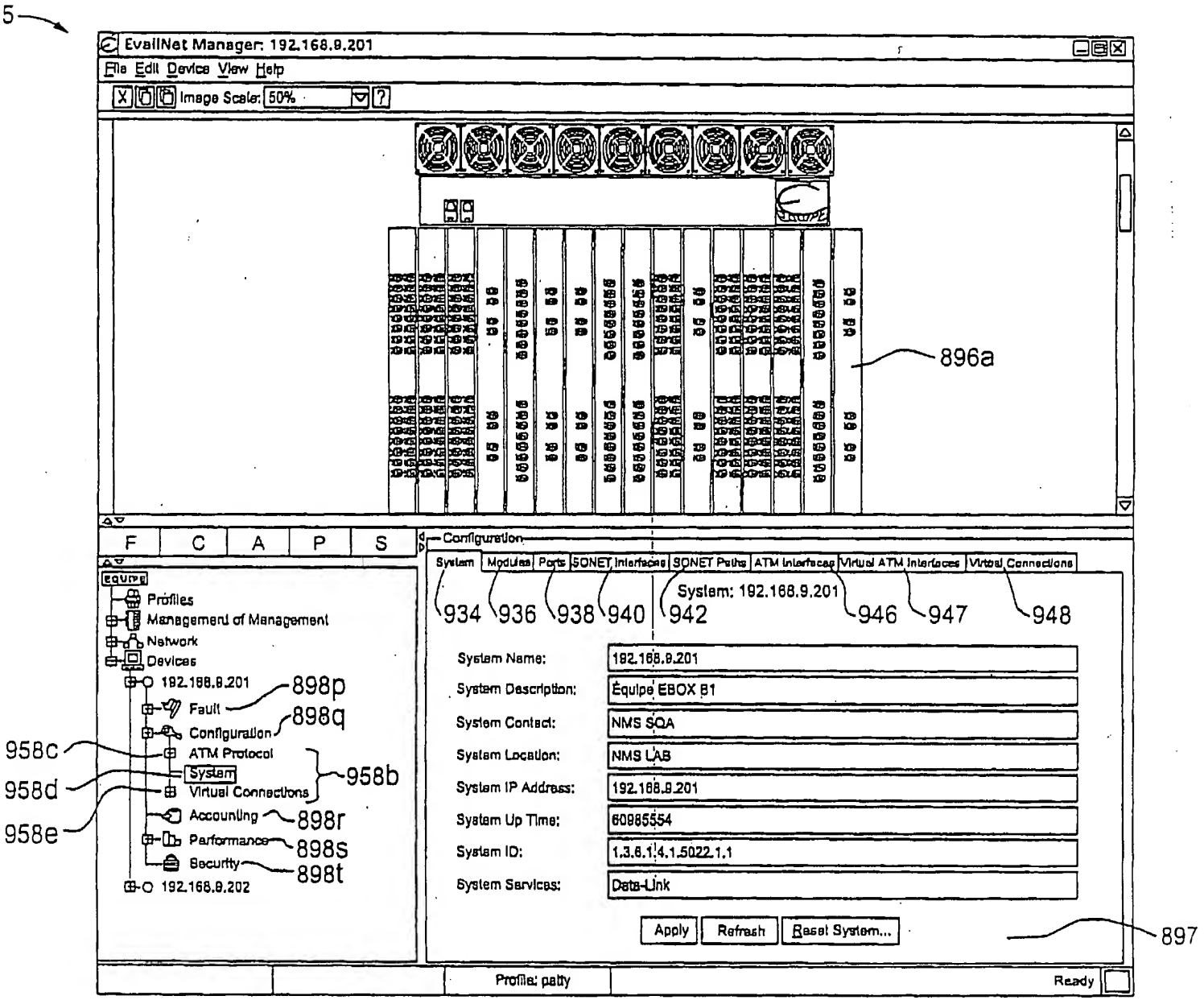

895
EvailNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
934 936 938 940 942 946 947 948
System: 192.168.9.201
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
ATM Protocol
System
Virtual Connections
Accounting
Performance
Security
192.168.9.202
898p
898q
958c
958d
958e
958b
898r
898s
898t
System Name: 192.168.9.201
System Description: Equipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.201
System Up Time: 60985554
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply Refresh Reset System...
897
Profile: patty
Ready

FIG. 7H

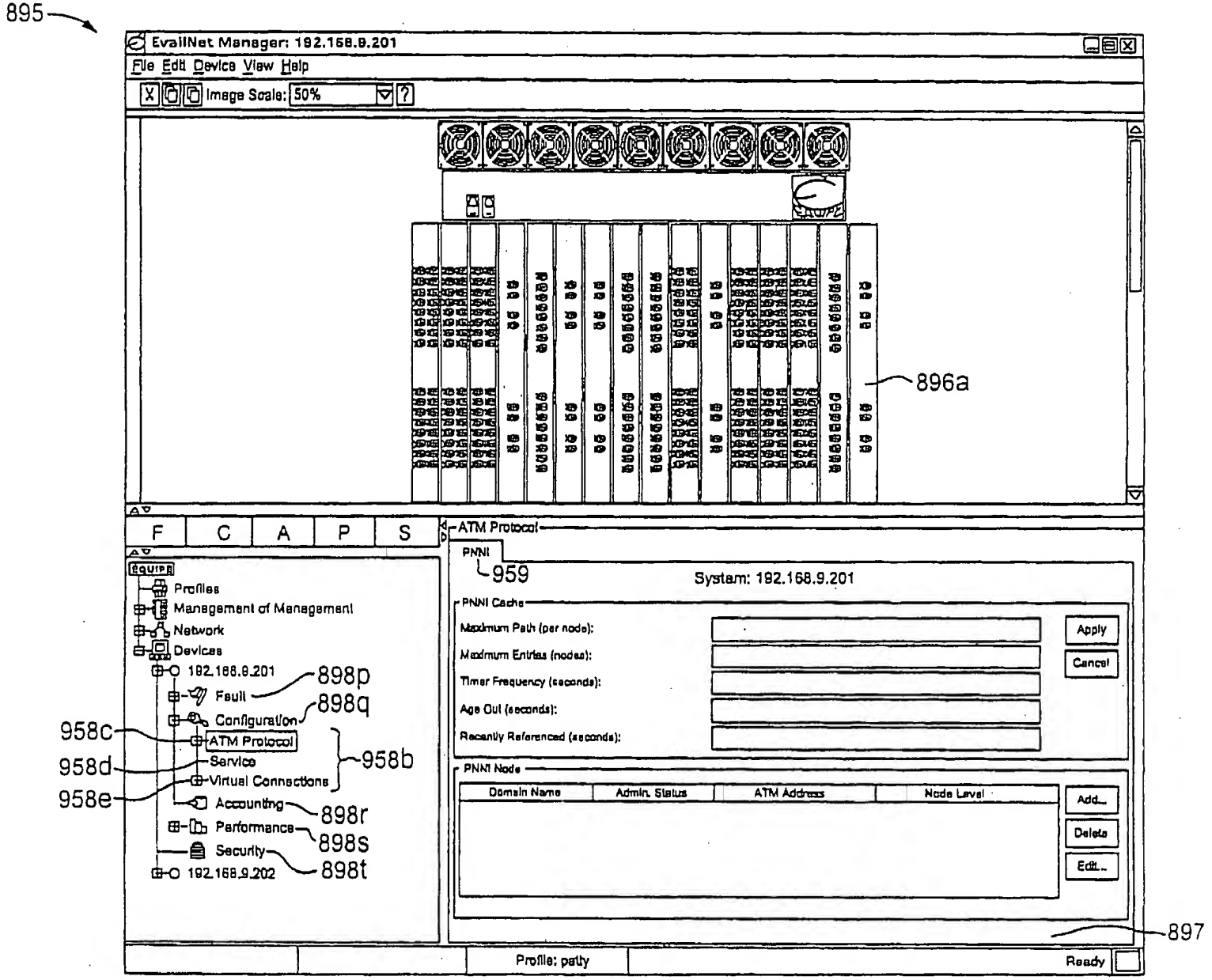

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
ATM Protocol
Service
Virtual Connections
Accounting
Performance
Security
192.168.9.202
898p
898q
958c
958d
958e
958b
898r
898s
898t
ATM Protocol
PNNI
959
System: 192.168.9.201
PNNI Cache
Maximum Path (per node):
Maximum Entries (nodes):
Timer Frequency (seconds):
Age Out (seconds):
Recently Referenced (seconds):
Apply
Cancel
PNNI Node
Domain Name
Admin. Status
ATM Address
Node Level
Add...
Delete
Edit...
897
Profile: patty
Ready

FIG. 7I

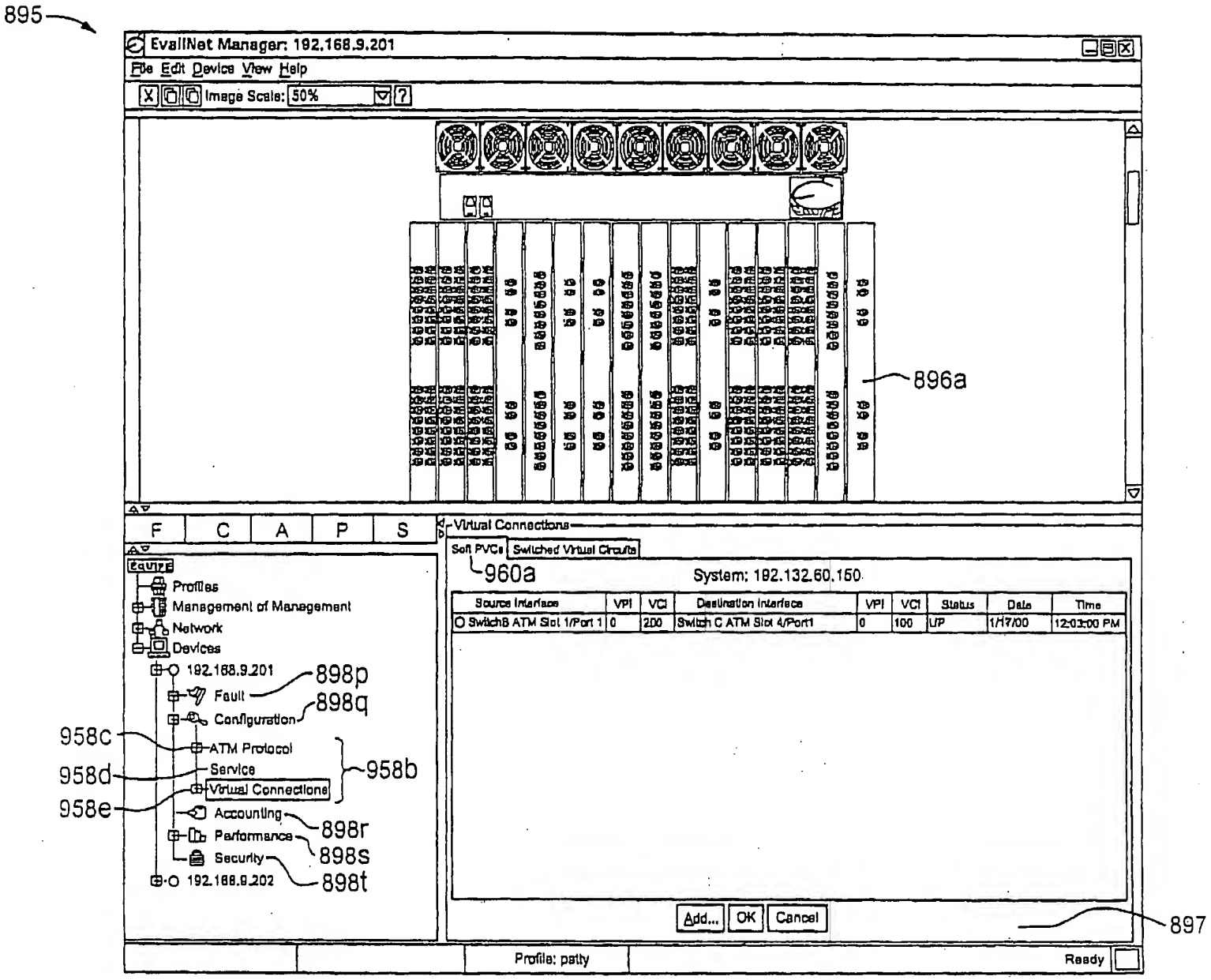

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Equip
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
ATM Protocol
Service
Virtual Connections
Accounting
Performance
Security
192.168.9.202
898p
898q
958c
958d
958e
958b
898r
898s
898t
Virtual Connections
Soft PVCs
Switched Virtual Circuits
960a
System: 192.132.60.150
Source Interface
VPI
VCI
Destination Interface
VPI
VCI
Status
Date
Time
Switch B ATM Slot 1/Port 1
0
200
Switch C ATM Slot 4/Port1
0
100
UP
1/17/00
12:03:00 PM
Add...
OK
Cancel
897
Profile: patty
Ready

FIG. 7J

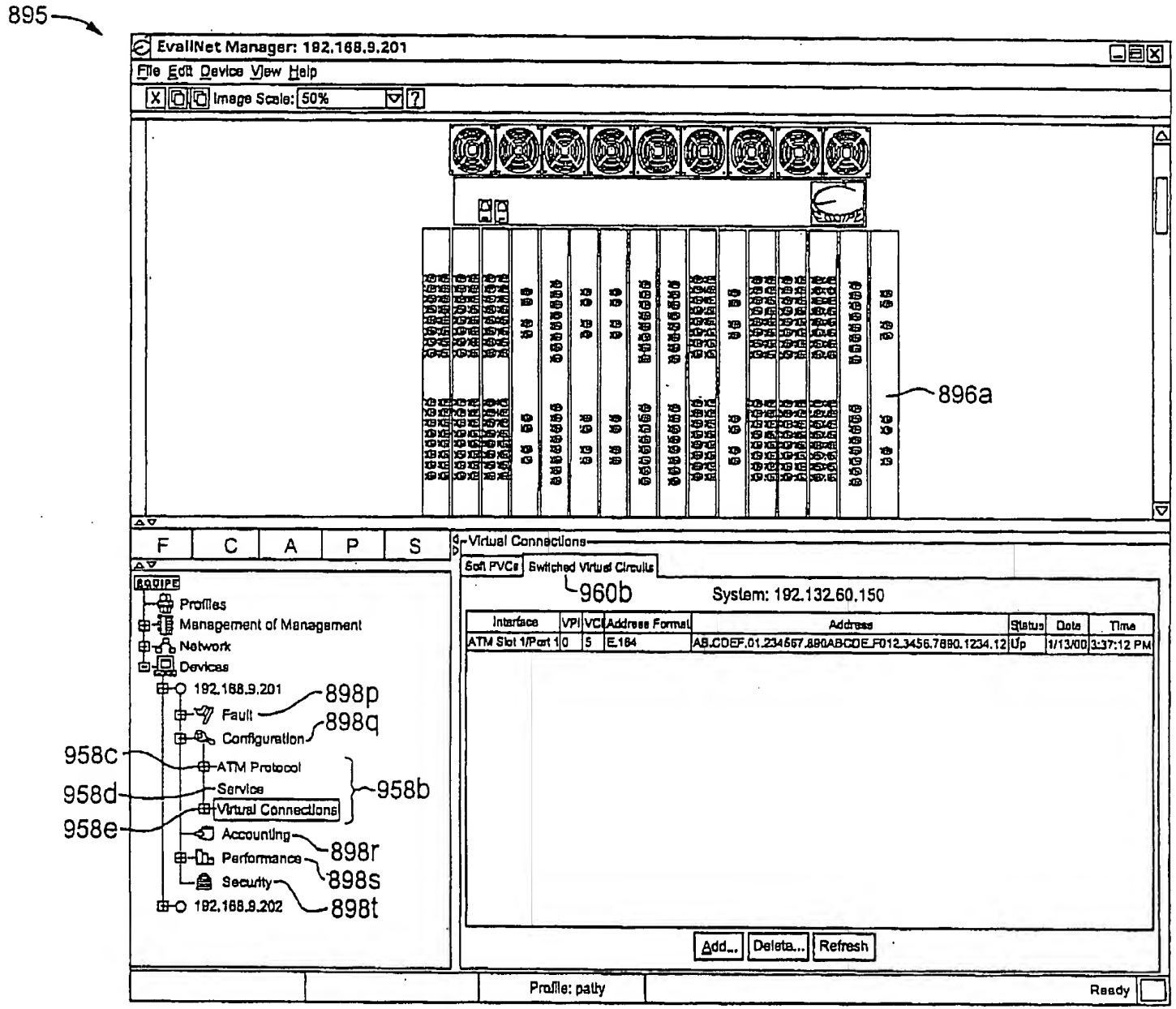

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
ASQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
ATM Protocol
Service
Virtual Connections
Accounting
Performance
Security
192.168.9.202
898p
898q
958c
958d
958e
958b
898r
898s
898t
Virtual Connections
Soft PVCs
Switched Virtual Circuits
960b
System: 192.132.60.150
Interface
VPI
VCI
Address Format
Address
Status
Date
Time
ATM Slot 1/Port 1
0
5
E.164
AB.CDEF.01.234567.890ABCDE.F012.3456.7890.1234.12
Up
1/13/00
3:37:12 PM
Add...
Delete...
Refresh
Profile: patty
Ready

FIG. 7K

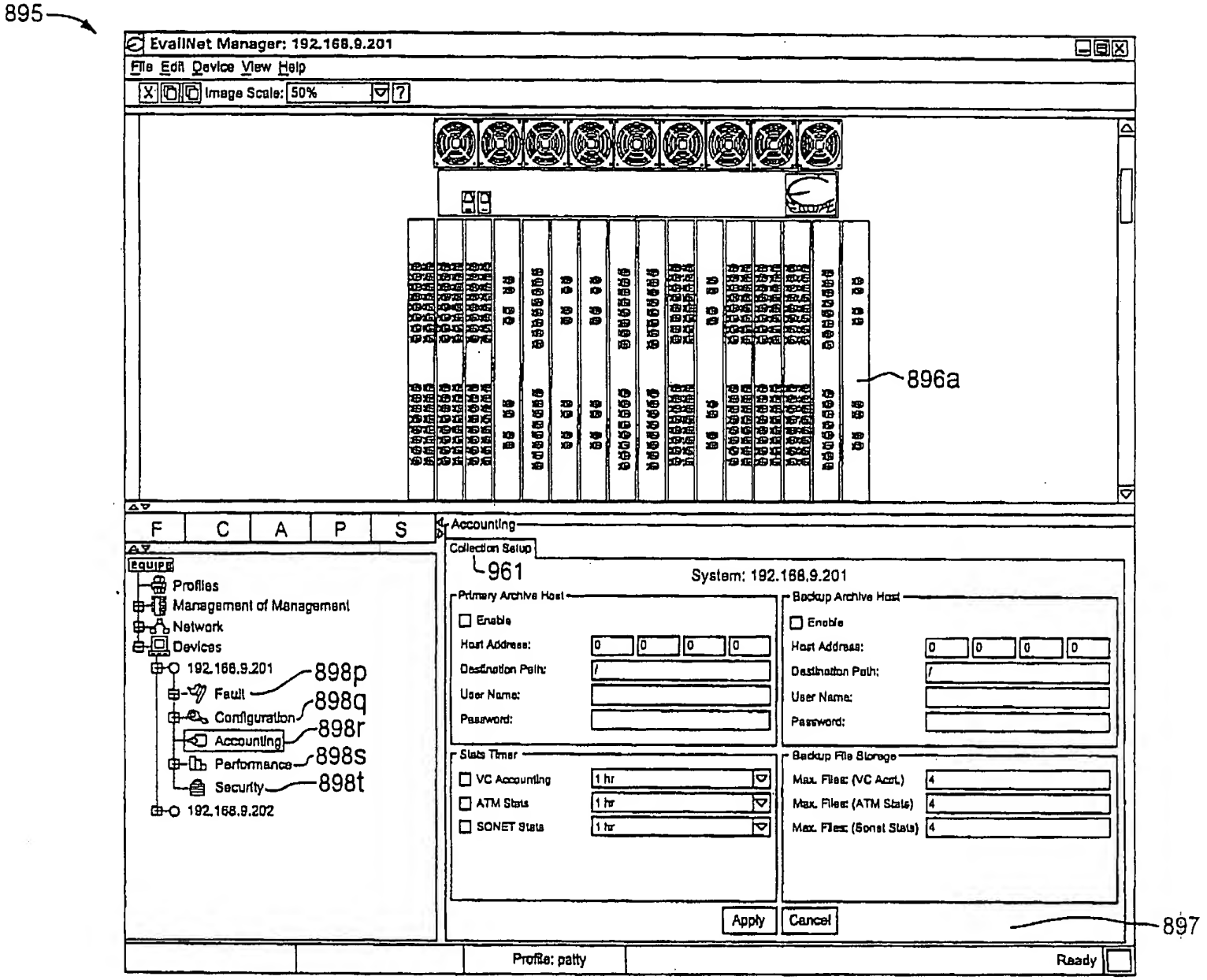

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
Equipt
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
Security
192.168.9.202
898p
898q
898r
898s
898t
Accounting
Collection Setup
961
System: 192.168.9.201
Primary Archive Host
Enable
Host Address:
Destination Path:
User Name:
Password:
Backup Archive Host
Enable
Host Address:
Destination Path:
User Name:
Password:
Stats Timer
VC Accounting
ATM Stats
SONET Stats
1 hr
Backup File Storage
Max. Files: (VC Acct.)
Max. Files: (ATM Stats)
Max. Files: (Sonet Stats)
Apply
Cancel
897
Profile: patty
Ready

FIG. 7L

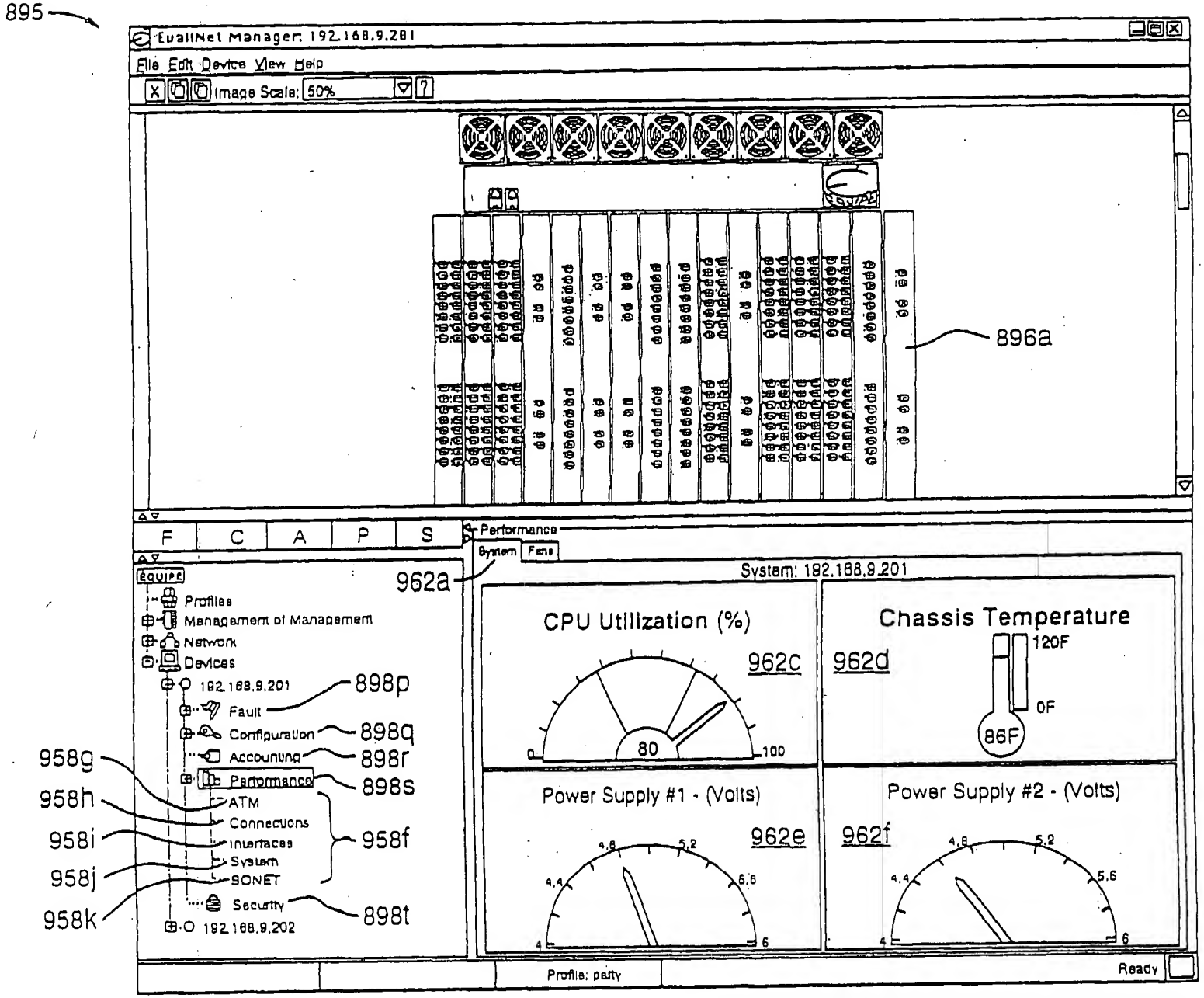

895
EvalNet Manager: 192.168.9.281
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
Performance
System
Fans
962a
System: 192.168.9.201
Profiles
Management of Management
Network
Devices
192.168.9.201
898p
Fault
Configuration
898q
Accounting
898r
Performance
898s
ATM
Connections
Interfaces
System
SONET
958f
Security
898t
192.168.9.202
958g
958h
958i
958j
958k
CPU Utilization (%)
962c
80
100
Chassis Temperature
962d
120F
0F
86F
Power Supply #1 - (Volts)
962e
Power Supply #2 - (Volts)
962f
Profile: party
Ready

FIG. 7M

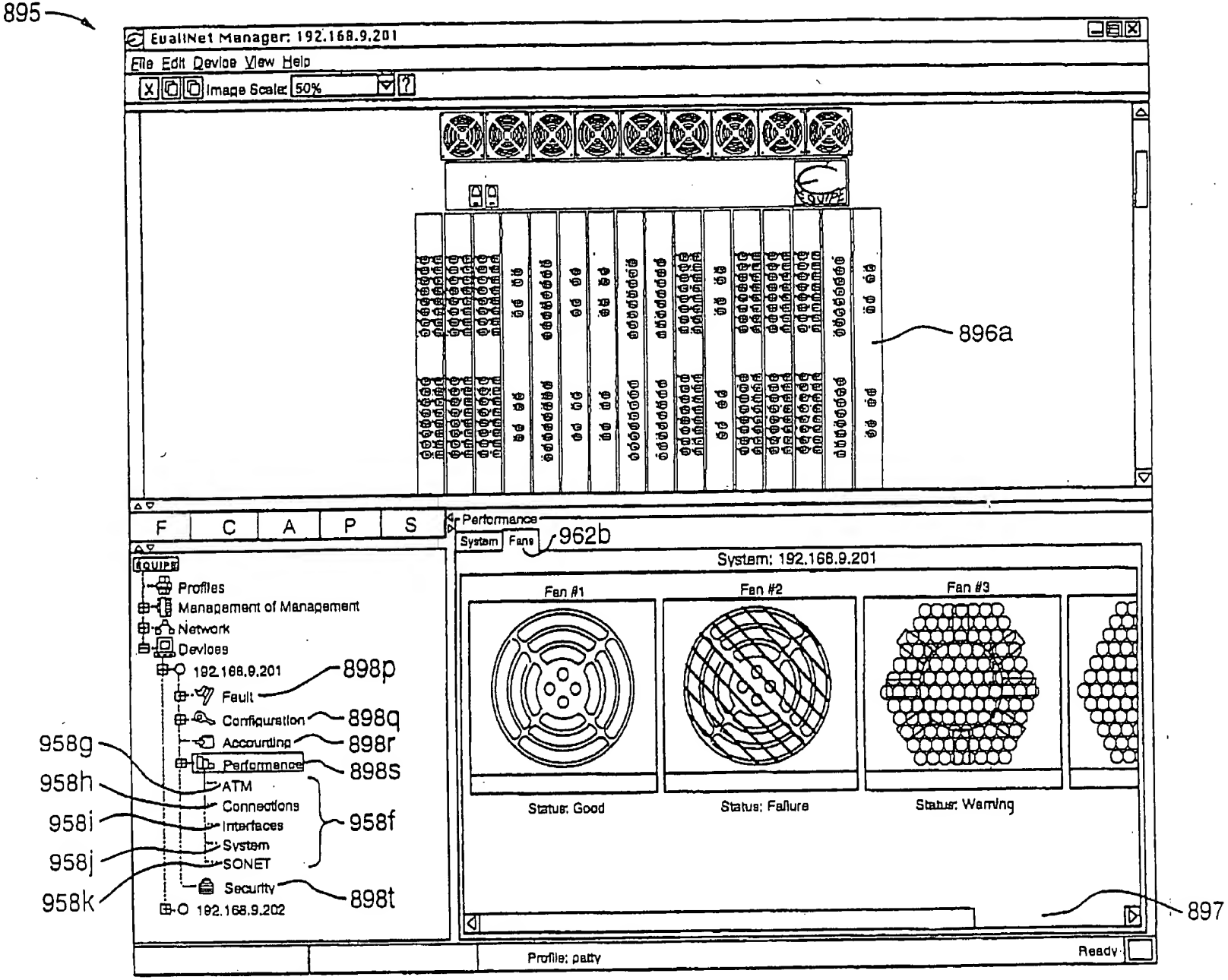

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
Performance
System
Fans
962b
System: 192.168.9.201
Profiles
Management of Management
Network
Devices
192.168.9.201
898p
Fault
Configuration
898q
Accounting
898r
Performance
898s
ATM
Connections
Interfaces
System
SONET
958f
Security
898t
192.168.9.202
958g
958h
958i
958j
958k
Fan #1
Fan #2
Fan #3
Status: Good
Status: Failure
Status: Warning
897
Profile: patty
Ready

FIG. 7N

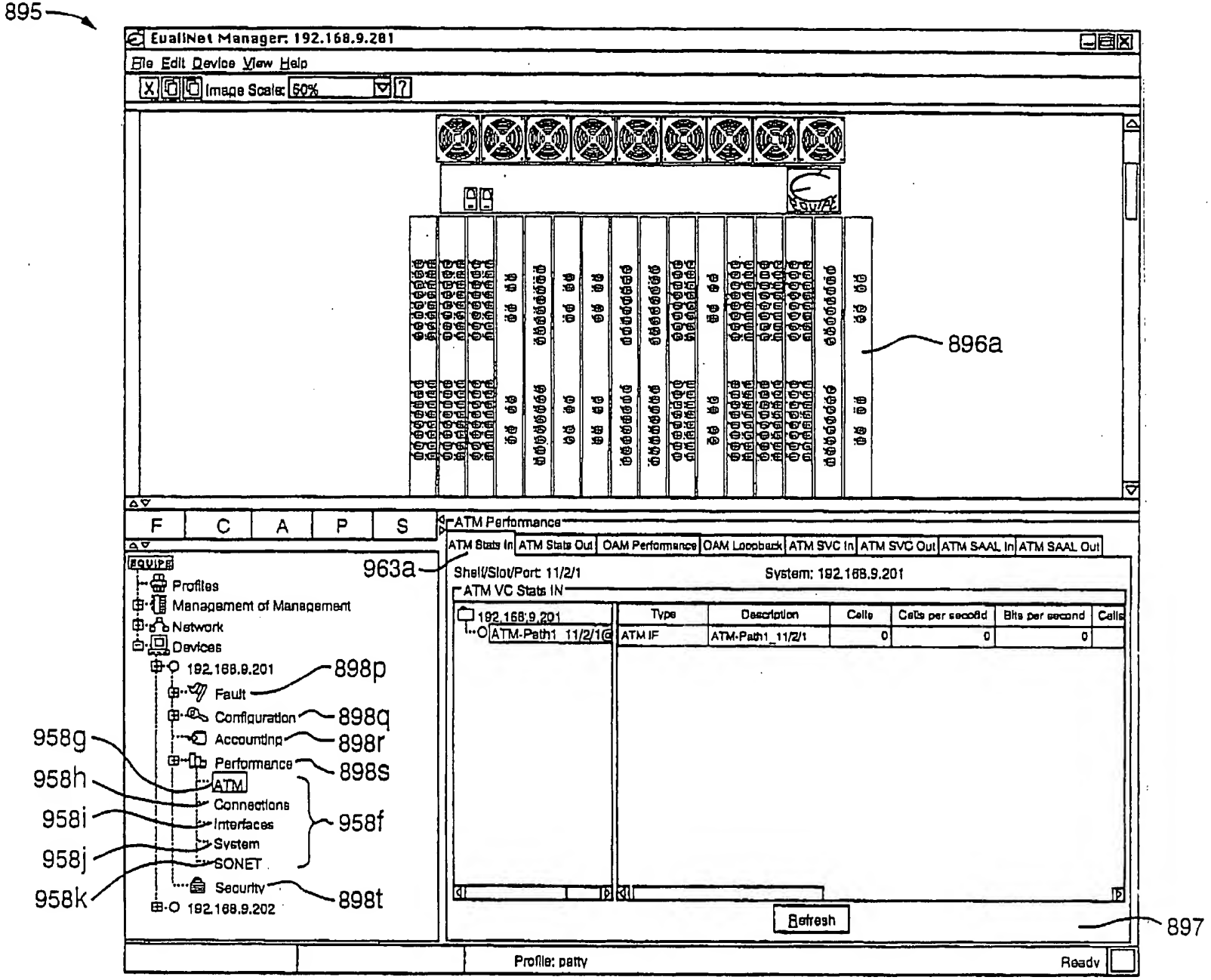

895
EqualNet Manager: 192.168.9.281
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
963a
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM VC Stats IN
192.168.9.201
ATM-Path1_11/2/1
Type
Description
Cells
Cells per second
Bits per second
ATM IF
ATM-Path1_11/2/1
Refresh
897
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
Profile: patty
Ready

FIG. 70

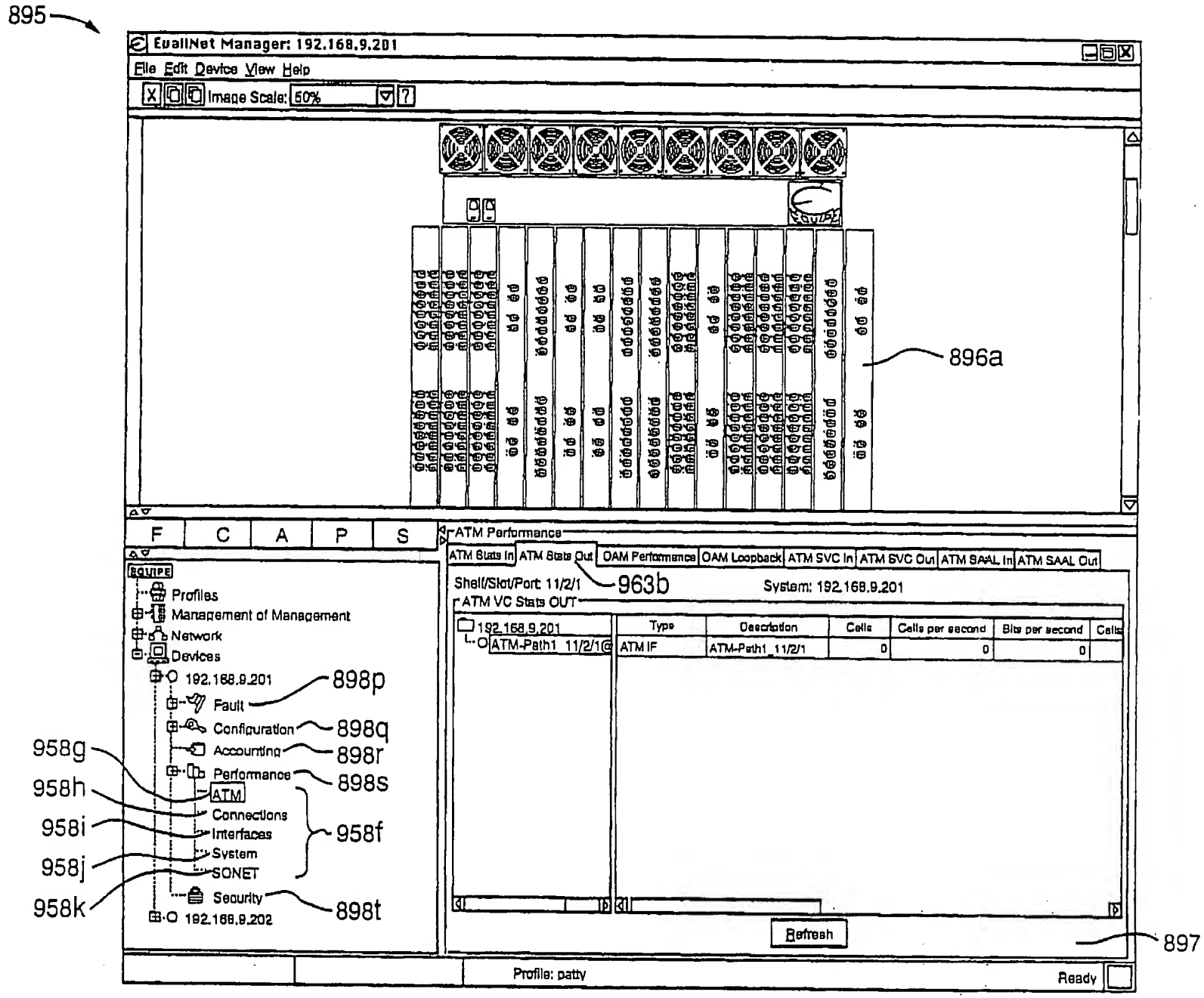

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
898t
958f
958g
958h
958i
958j
958k
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
963b
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM VC Stats OUT
192.168.9.201
ATM-Path1_11/2/1@
Type
Description
Cells
Cells per second
Bits per second
ATM IF
ATM-Path1_11/2/1
Refresh
897
Profile: patty
Ready

FIG. 7P

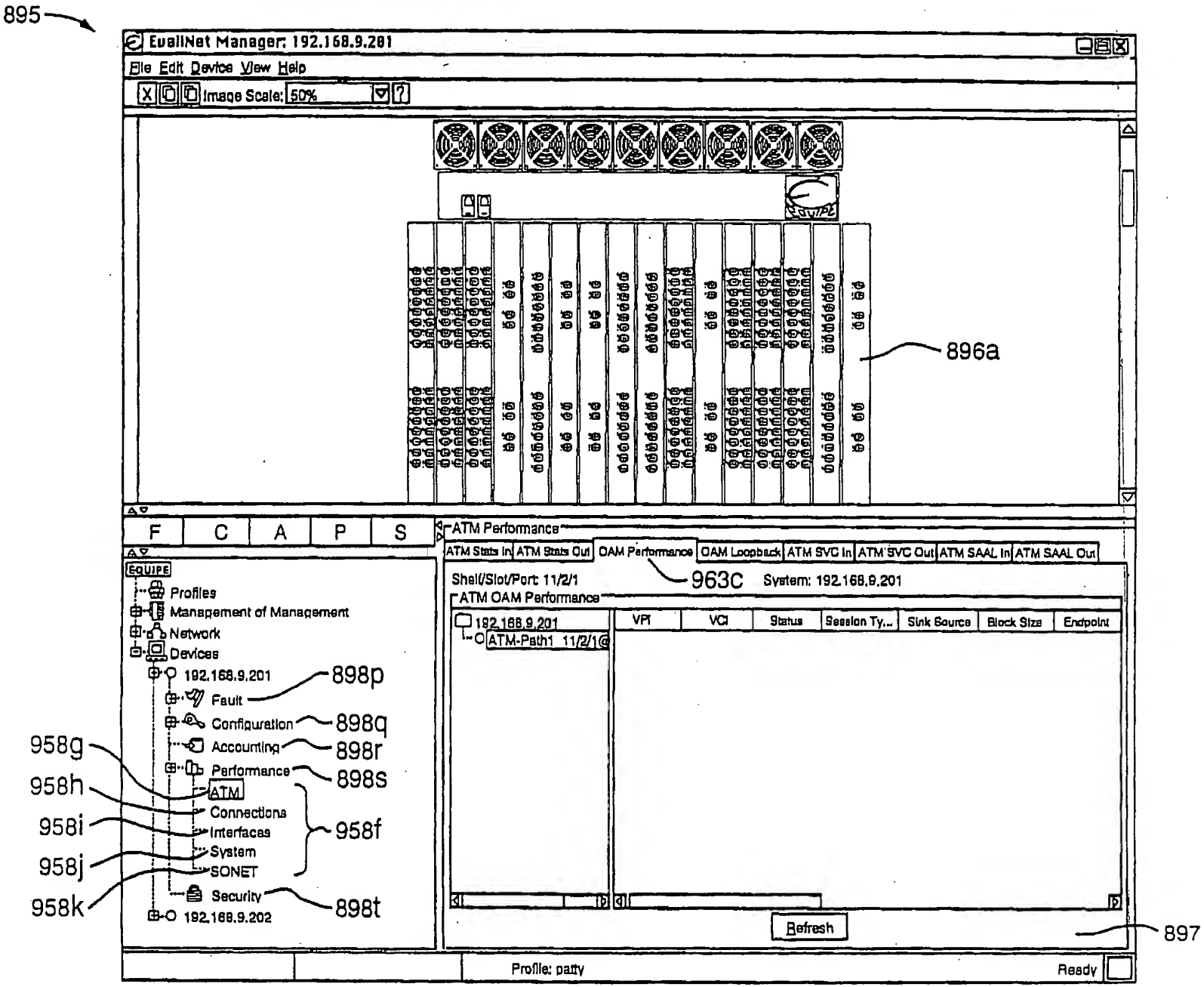

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
898p
Fault
Configuration
898q
Accounting
898r
Performance
898s
ATM
Connections
Interfaces
System
SONET
958f
Security
898t
192.168.9.202
958g
958h
958i
958j
958k
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
963c
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM OAM Performance
192.168.9.201
ATM-Path1 11/2/1@
VPI
VCI
Status
Session Ty...
Sink Source
Block Size
Endpoint
Refresh
897
Profile: patty
Ready

FIG. 7Q

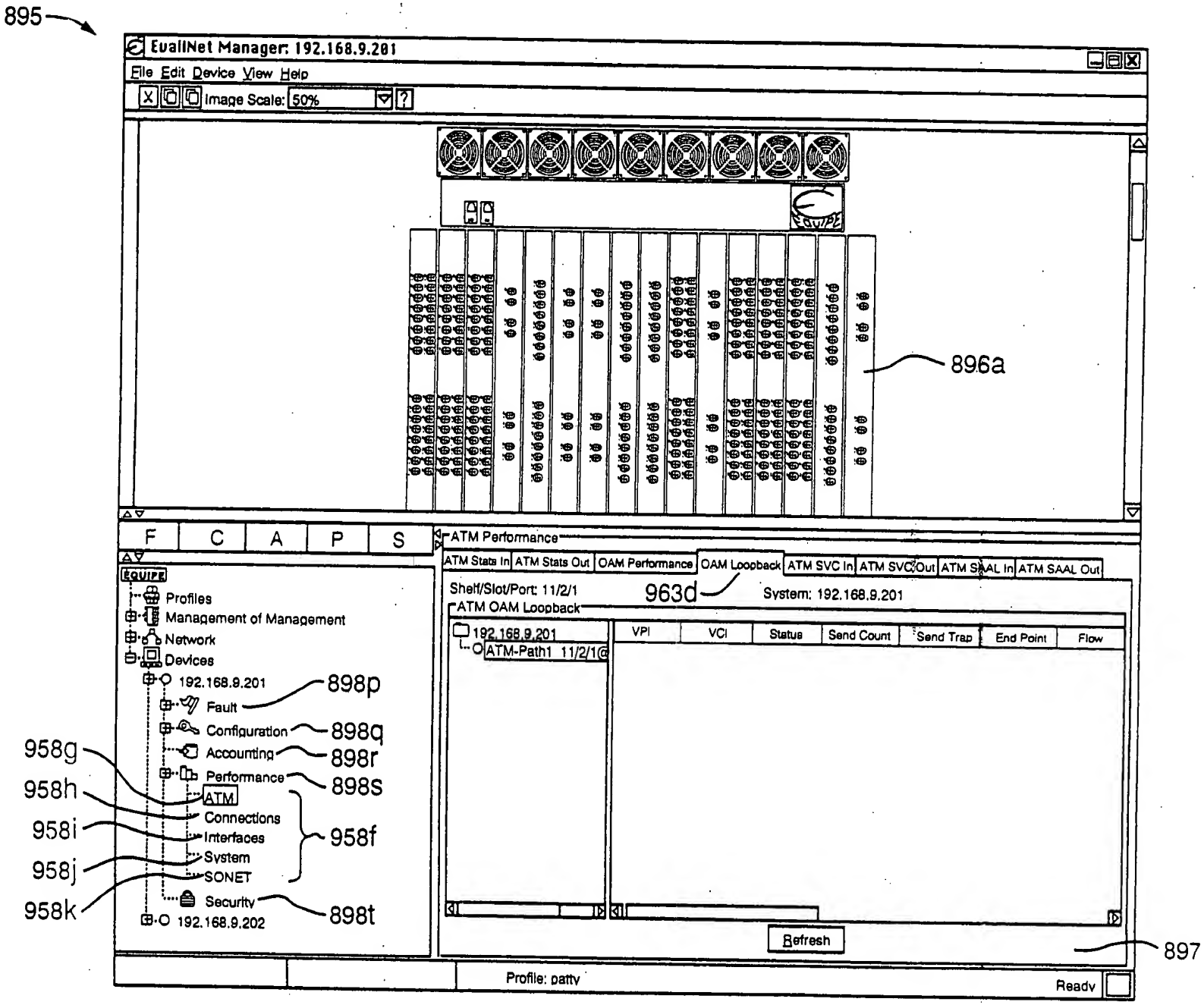

895
EvalINet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
Shelf/Slot/Port: 11/2/1
963d
System: 192.168.9.201
ATM OAM Loopback
192.168.9.201
ATM-Path1 11/2/1
VPI
VCI
Status
Send Count
Send Trap
End Point
Flow
Refresh
897
Profile: patty
Ready

FIG. 7R

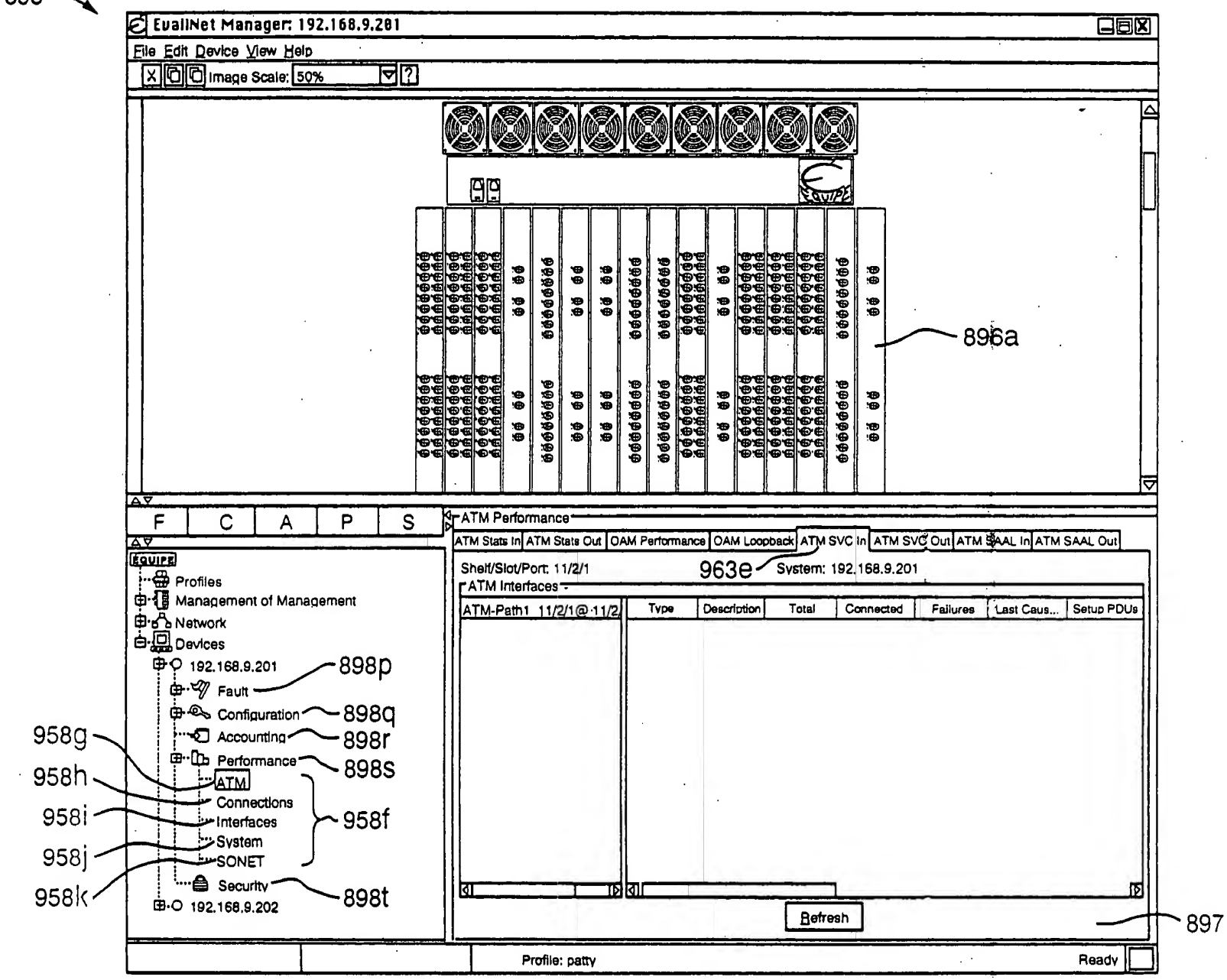

895
EvalINet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
898p
Fault
Configuration
898q
Accounting
898r
Performance
898s
ATM
Connections
Interfaces
System
SONET
958f
Security
898t
192.168.9.202
958g
958h
958i
958j
958k
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
Shelf/Slot/Port: 11/2/1
963e
System: 192.168.9.201
ATM Interfaces
ATM-Path1 11/2/1@11/2
Type
Description
Total
Connected
Failures
Last Caus...
Setup PDUs
Refresh
897
Profile: patty
Ready

FIG. 7S

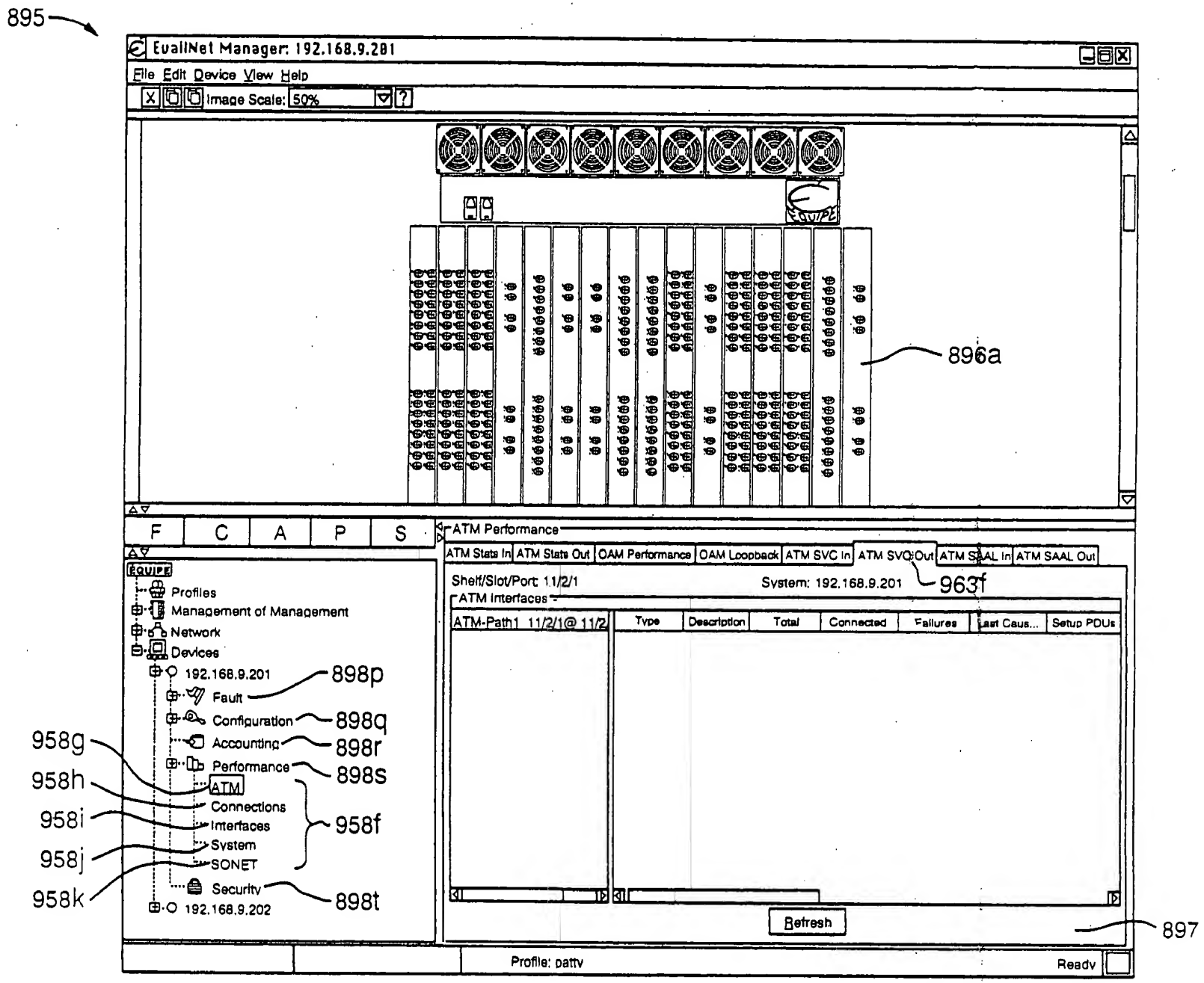

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
898p
Fault
Configuration
898q
Accounting
898r
Performance
898s
ATM
Connections
Interfaces
System
SONET
958f
Security
898t
192.168.9.202
958g
958h
958i
958j
958k
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
963f
Shelf/Slot/Port: 1.1/2/1
System: 192.168.9.201
ATM Interfaces
ATM-Path1 11/2/1@ 11/2
Type
Description
Total
Connected
Failures
Last Caus...
Setup PDUs
Refresh
897
Profile: patty
Ready

FIG. 7T

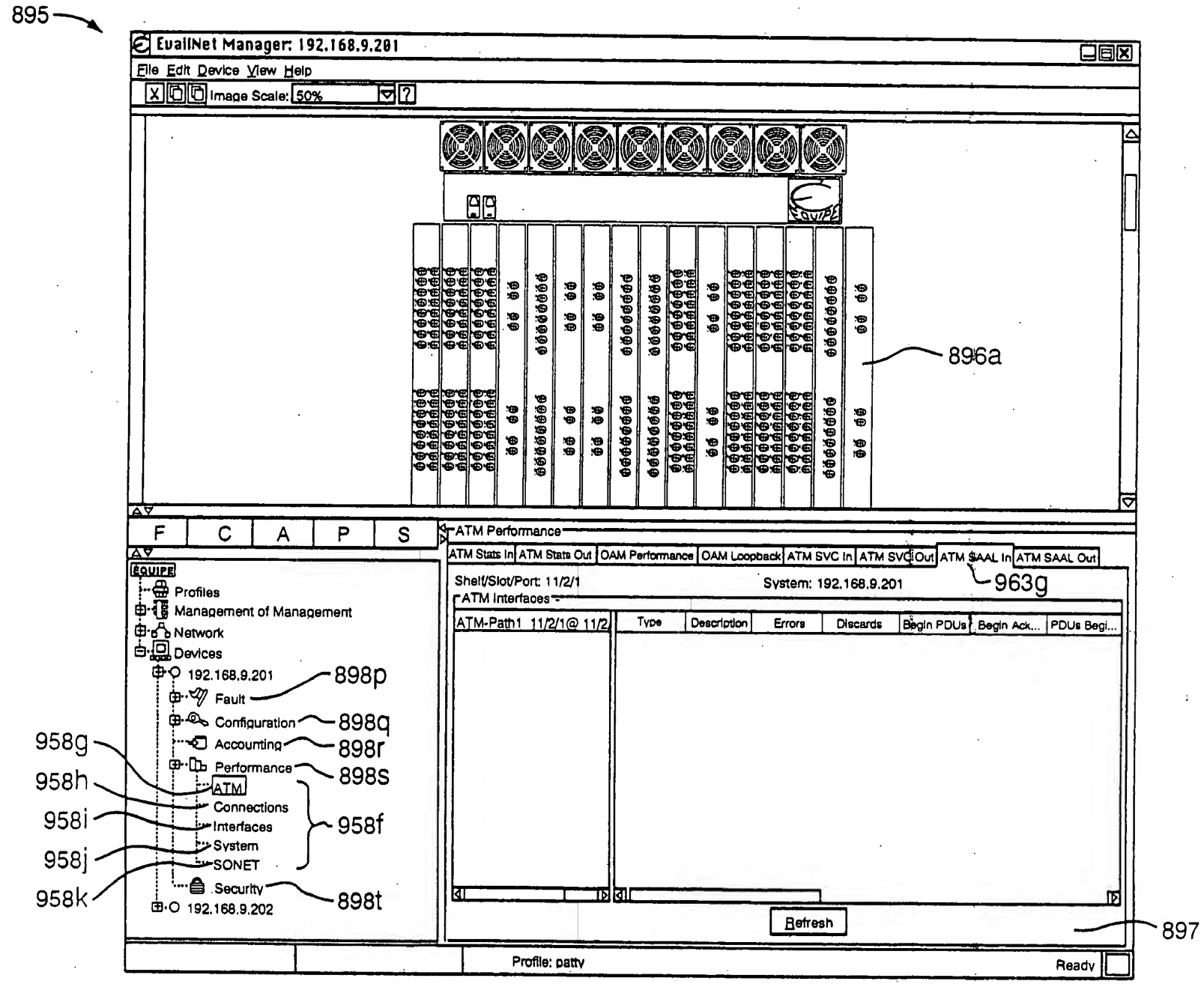

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
898t
958f
958g
958h
958i
958j
958k
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
963g
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM Interfaces
ATM-Path1 11/2/1@ 11/2
Type
Description
Errors
Discards
Begin PDUs
Begin Ack...
PDUs Begi...
Refresh
897
Profile: patty
Ready

FIG. 7U

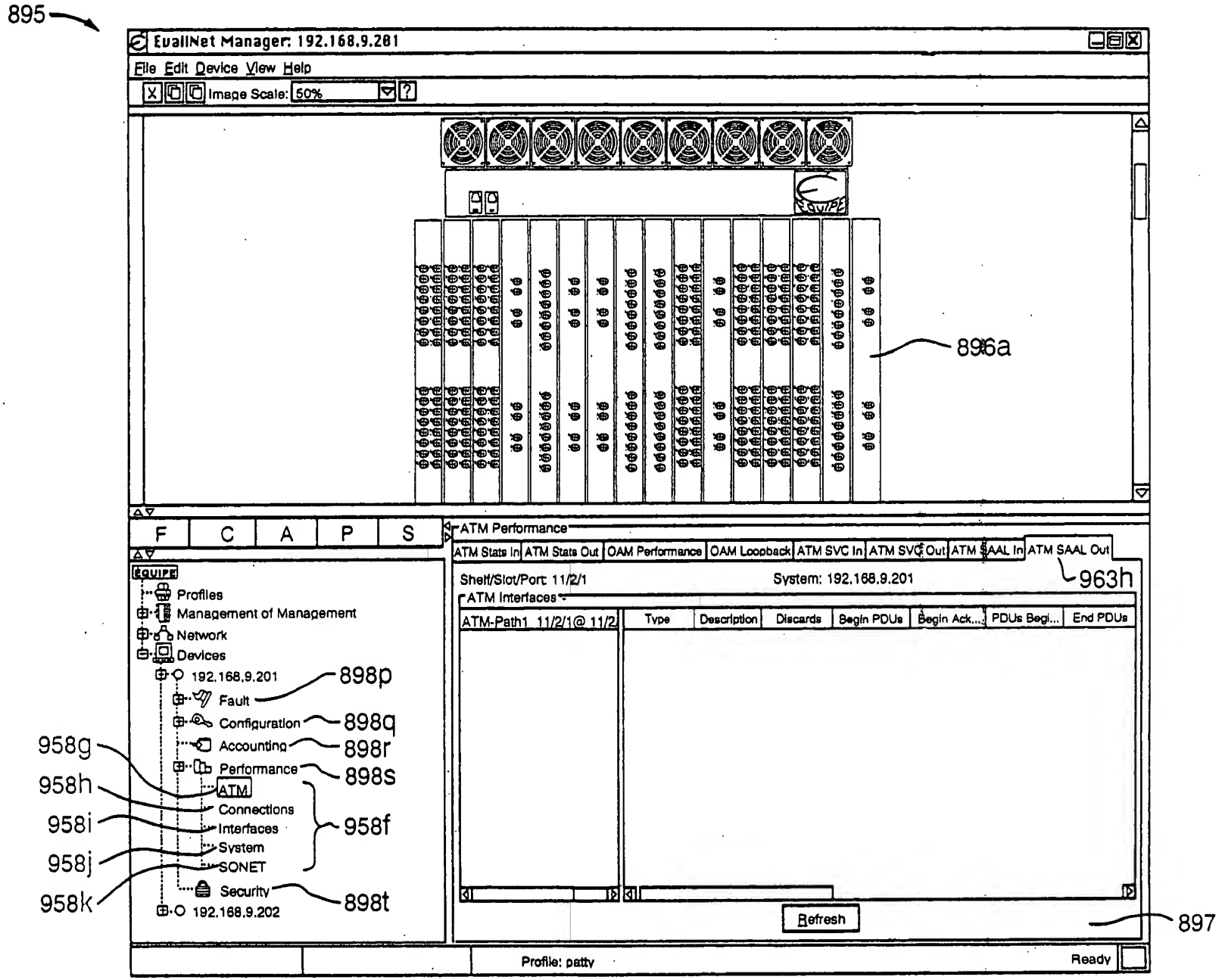

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
963h
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM Interfaces
ATM-Path1 11/2/1@ 11/2
Type
Description
Discards
Begin PDUs
Begin Ack...
PDUs Begi...
End PDUs
Refresh
897
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
Profile: patty
Ready

FIG. 7V

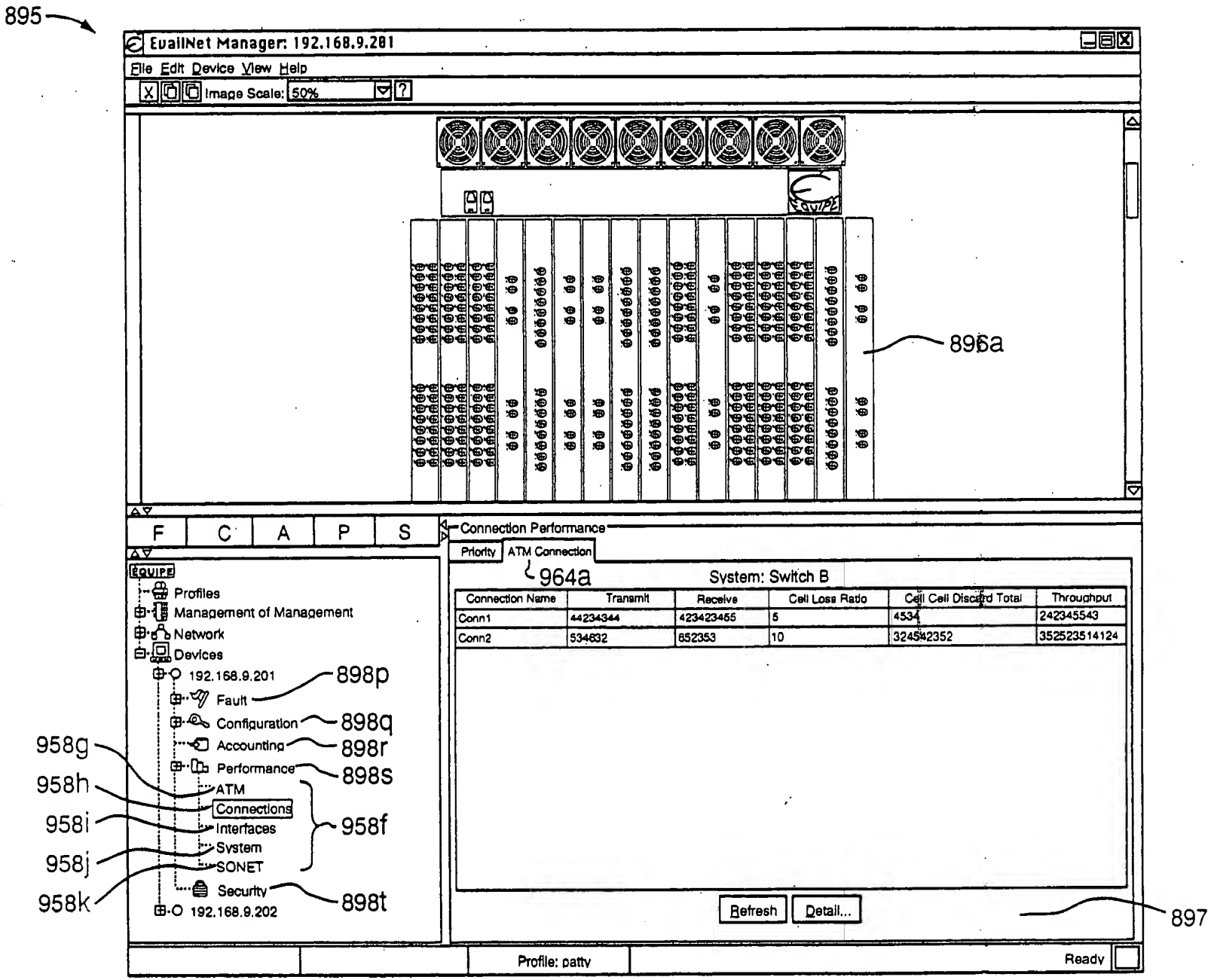

895
EvalINet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
Connection Performance
Priority
ATM Connection
964a
System: Switch B
Connection Name
Transmit
Receive
Cell Loss Ratio
Cell Cell Discard Total
Throughput
Conn1
44234344
423423455
5
4534
242345543
Conn2
534632
652353
10
324542352
352523514124
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
Refresh
Detail...
897
Profile: patty
Ready

FIG. 7W

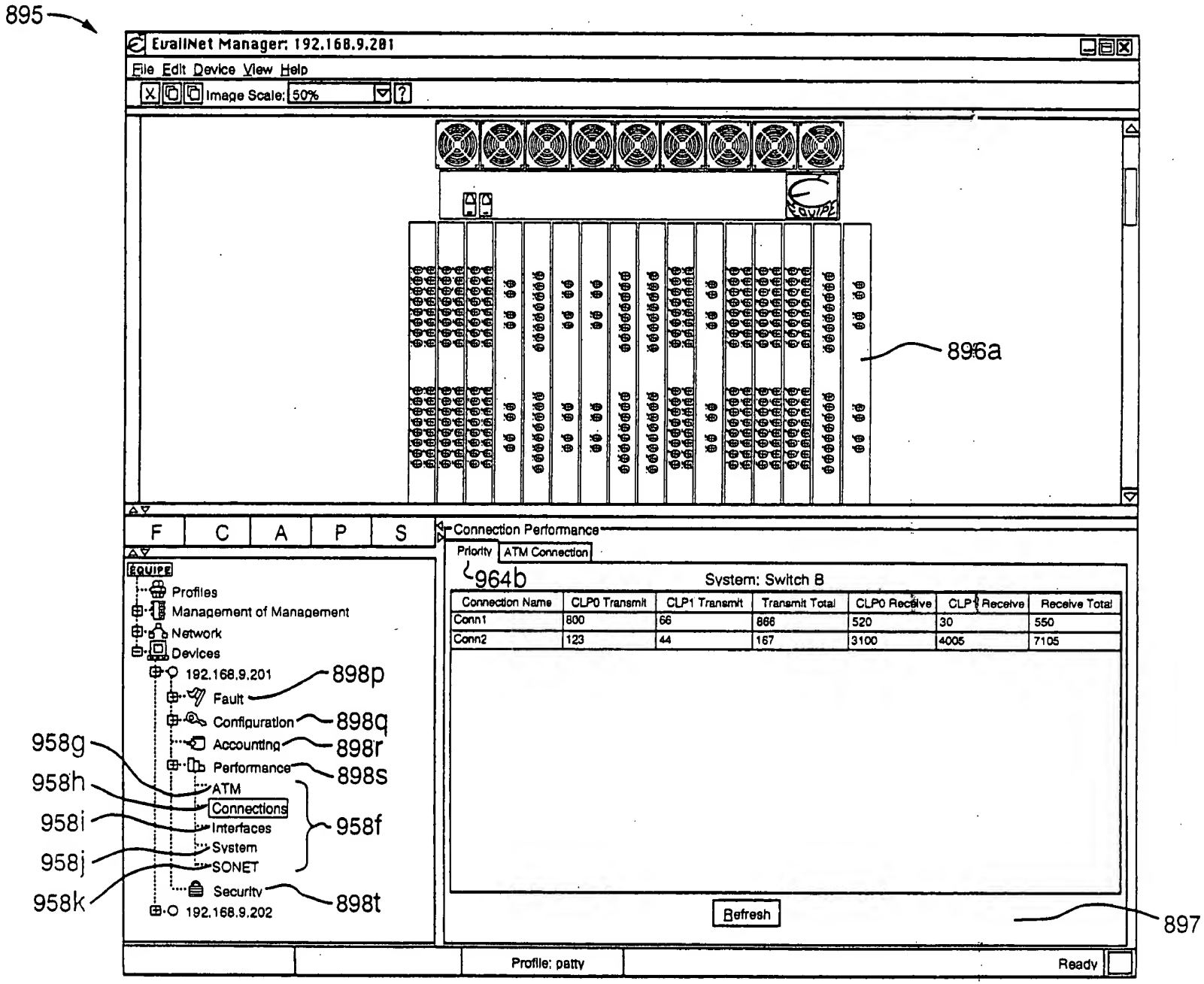

895
EvalINet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
Connection Performance
Priority
ATM Connection
964b
System: Switch B
Connection Name
CLP0 Transmit
CLP1 Transmit
Transmit Total
CLP0 Receive
CLP1 Receive
Receive Total
Conn1
800
66
866
520
30
550
Conn2
123
44
167
3100
4005
7105
Refresh
897
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
898p
Fault
Configuration
898q
Accounting
898r
Performance
898s
958g
ATM
958h
Connections
958i
Interfaces
958j
System
SONET
958f
958k
Security
898t
192.168.9.202
Profile: patty
Ready

FIG. 7X

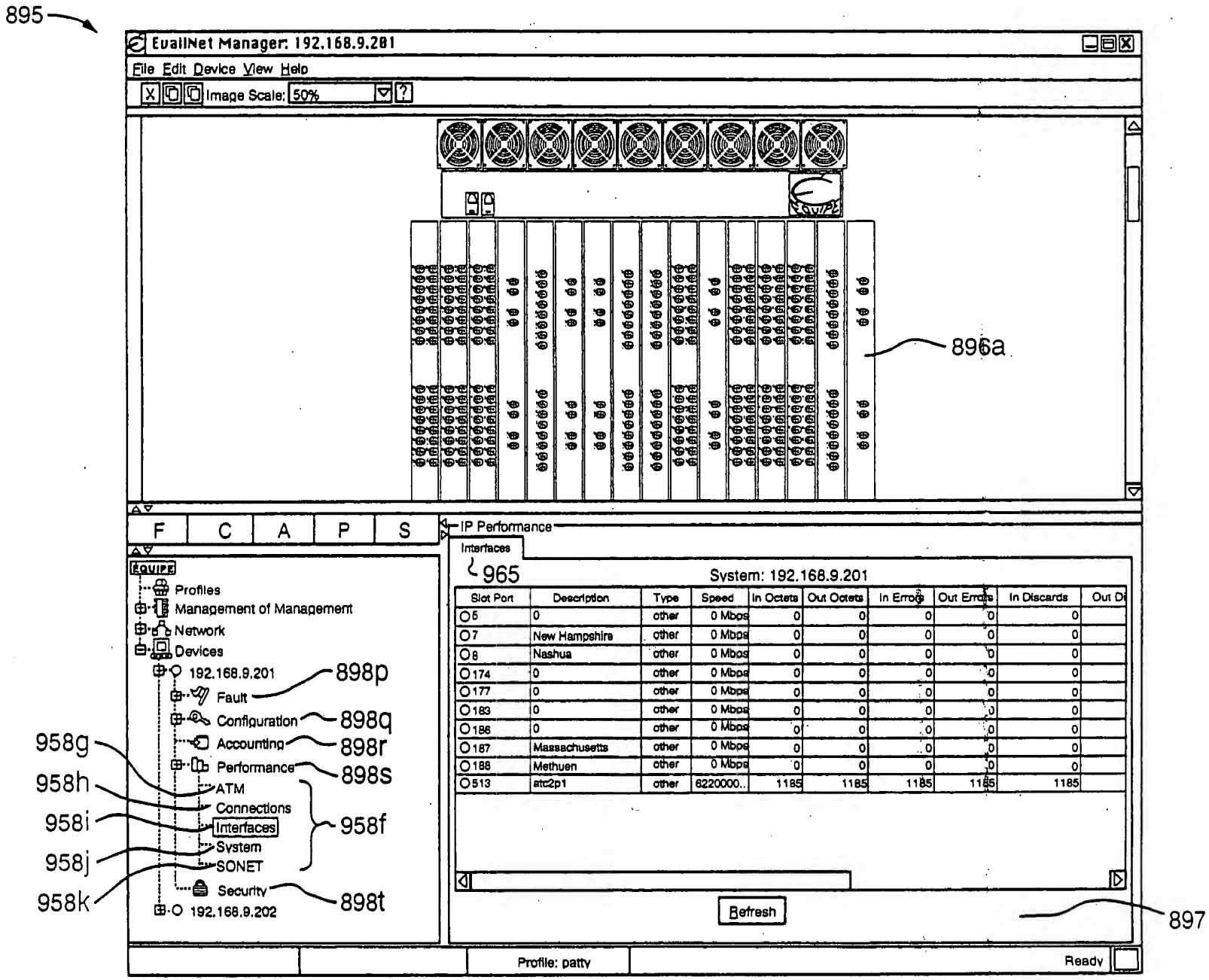

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
IP Performance
Interfaces
965
System: 192.168.9.201
Slot Port | Description | Type | Speed | In Octets | Out Octets | In Errors | Out Errors | In Discards | Out Di
5 | 0 | other | 0 Mbps | 0 | 0 | 0 | 0 | 0
7 | New Hampshire | other | 0 Mbps | 0 | 0 | 0 | 0 | 0
8 | Nashua | other | 0 Mbps | 0 | 0 | 0 | 0 | 0
174 | 0 | other | 0 Mbps | 0 | 0 | 0 | 0 | 0
177 | 0 | other | 0 Mbps | 0 | 0 | 0 | 0 | 0
183 | 0 | other | 0 Mbps | 0 | 0 | 0 | 0 | 0
186 | 0 | other | 0 Mbps | 0 | 0 | 0 | 0 | 0
187 | Massachusetts | other | 0 Mbps | 0 | 0 | 0 | 0 | 0
188 | Methuen | other | 0 Mbps | 0 | 0 | 0 | 0 | 0
513 | atc2p1 | other | 6220000.. | 1185 | 1185 | 1185 | 1185 | 1185
Refresh
897
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
Profile: patty
Ready

FIG. 7Y

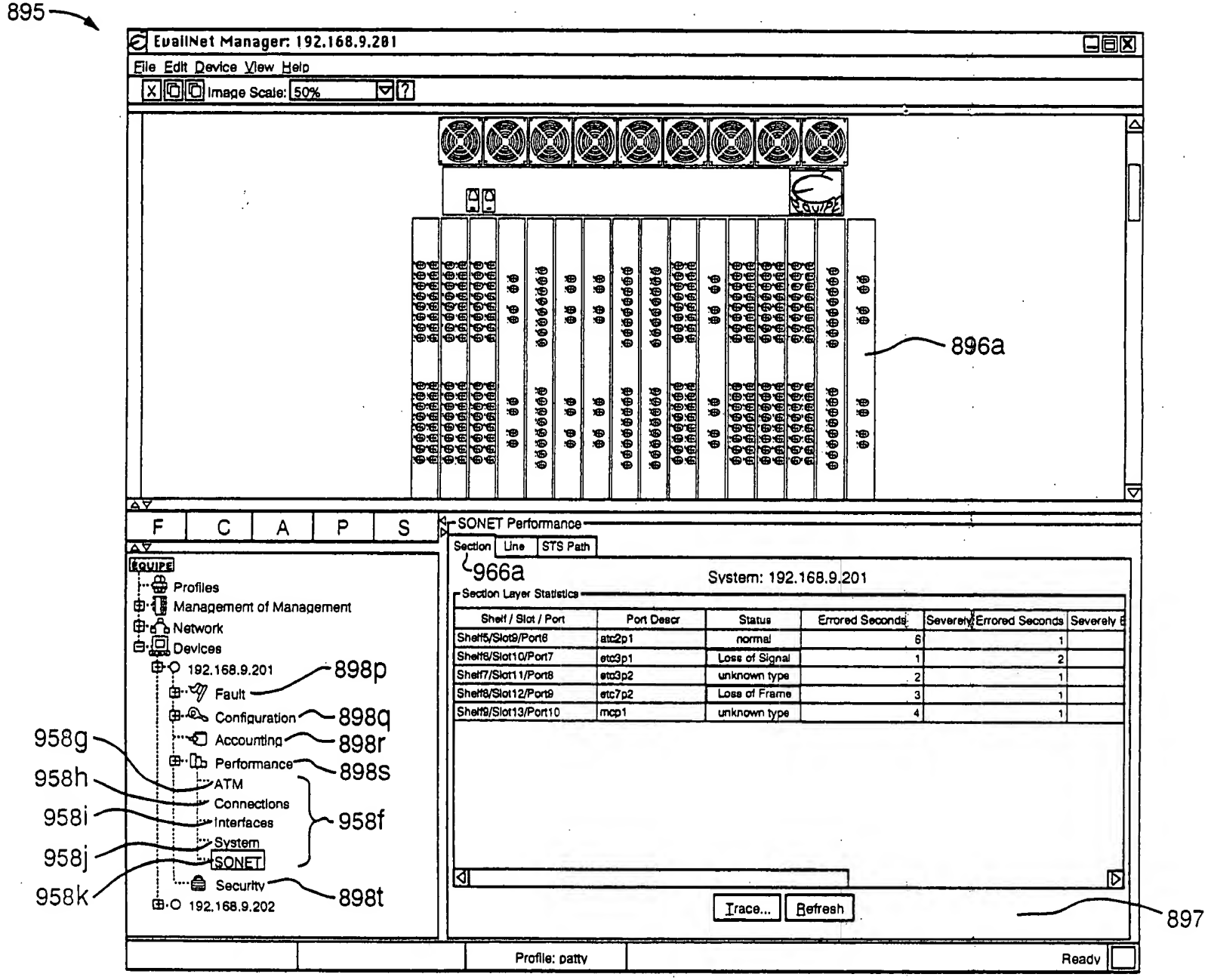

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
SONET Performance
Section Line STS Path
966a
System: 192.168.9.201
Section Layer Statistics
Shelf / Slot / Port
Port Descr
Status
Errored Seconds
Severely Errored Seconds
Shelf5/Slot9/Port6 atc2p1 normal 6 1
Shelf6/Slot10/Port7 etc3p1 Loss of Signal 1 2
Shelf7/Slot11/Port8 etc3p2 unknown type 2 1
Shelf8/Slot12/Port9 etc7p2 Loss of Frame 3 1
Shelf9/Slot13/Port10 mcp1 unknown type 4 1
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
Trace...
Refresh
897
Profile: patty
Ready

FIG. 8A

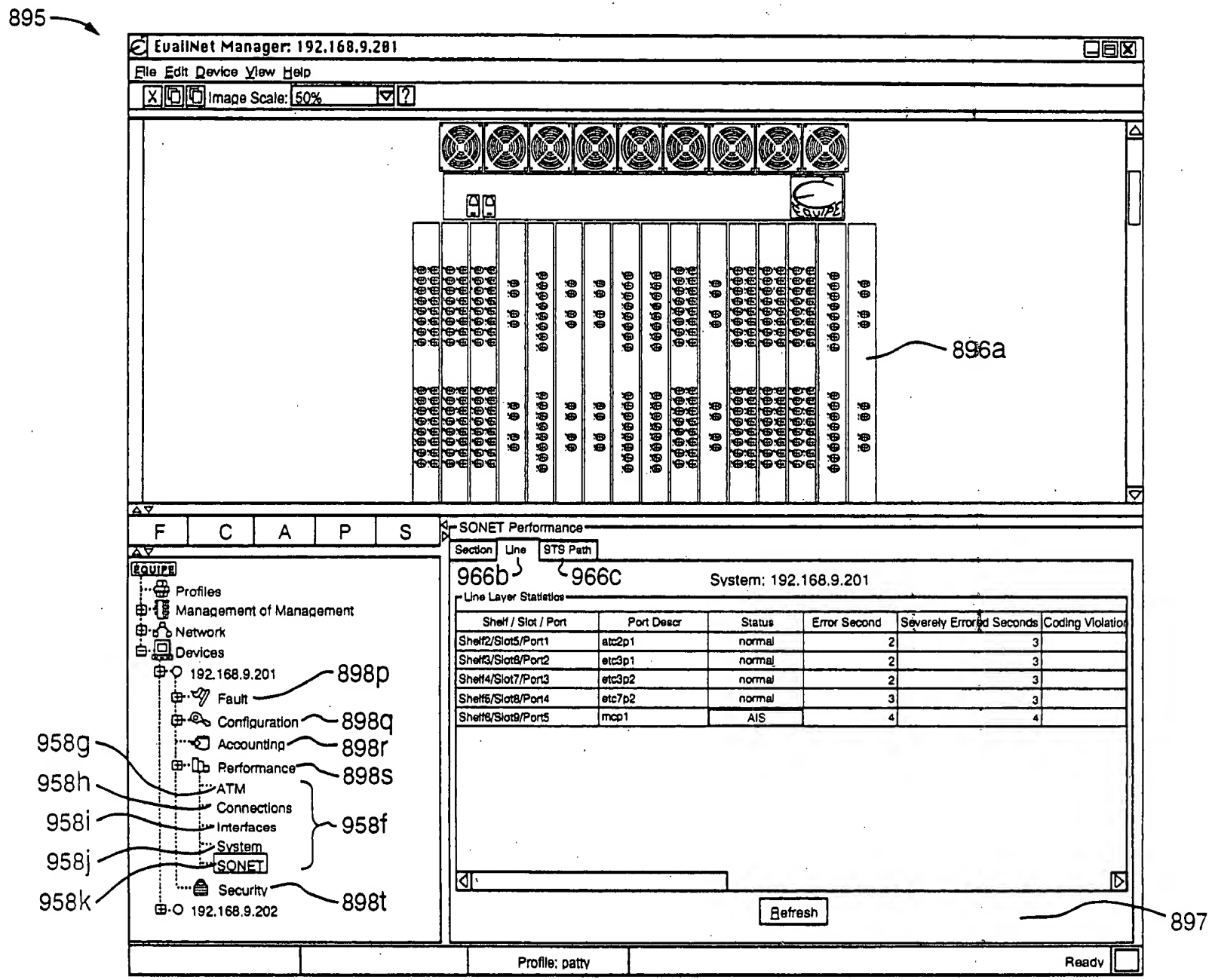

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
958g
958h
958i
958j
958k
898t
SONET Performance
Section
Line
STS Path
966b
966c
System: 192.168.9.201
Line Layer Statistics
Shelf / Slot / Port
Port Descr
Status
Error Second
Severely Errored Seconds
Coding Violation
Shelf2/Slot5/Port1 atc2p1 normal 2 3
Shelf3/Slot6/Port2 etc3p1 normal 2 3
Shelf4/Slot7/Port3 etc3p2 normal 2 3
Shelf5/Slot8/Port4 etc7p2 normal 3 3
Shelf6/Slot9/Port5 mcp1 AIS 4 4
Refresh
897
Profile: patty
Ready

FIG. 8B

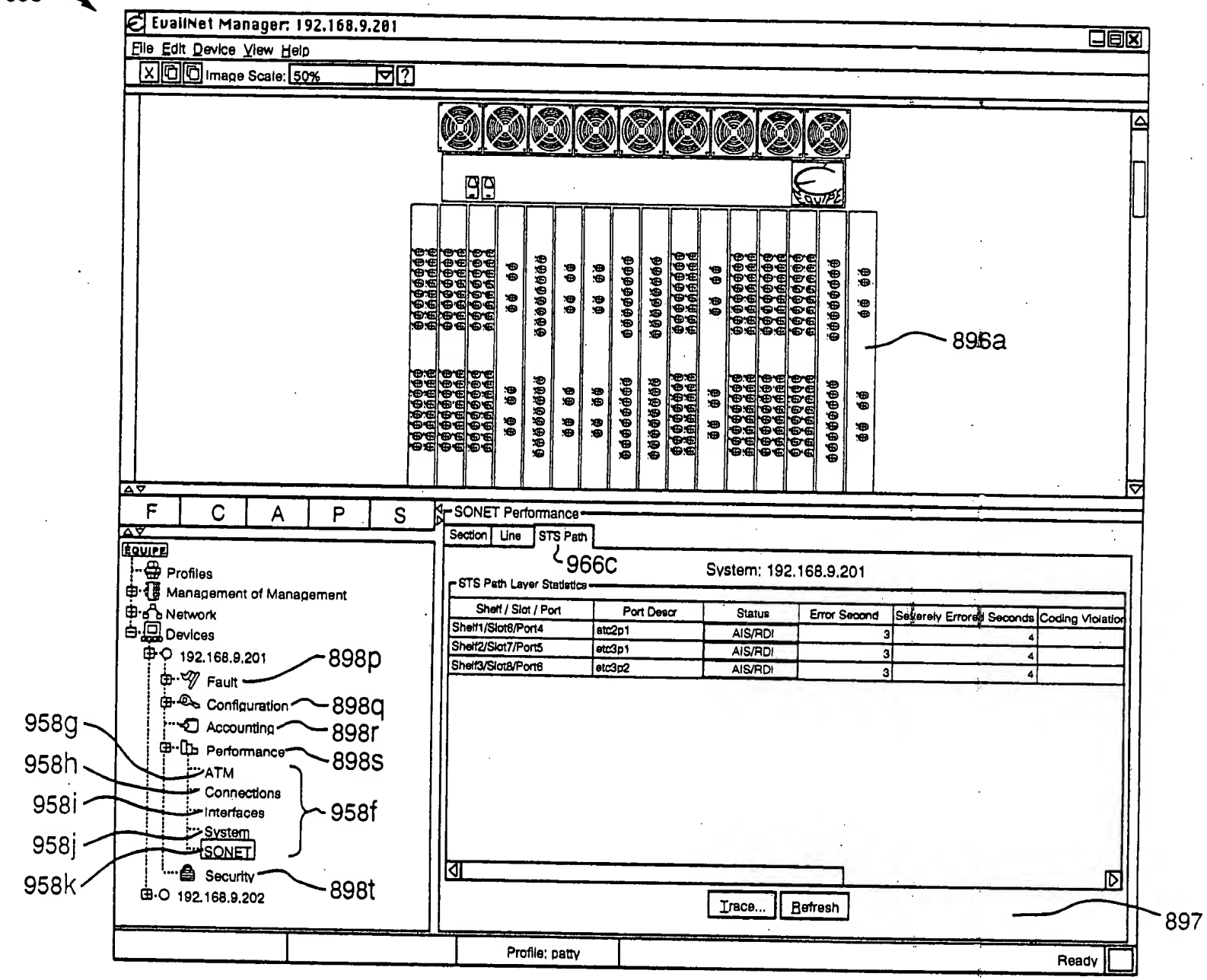

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
SONET Performance
Section
Line
STS Path
966c
System: 192.168.9.201
STS Path Layer Statistics
Shelf / Slot / Port
Port Descr
Status
Error Second
Severely Errored Seconds
Coding Violation
Shelf1/Slot6/Port4
atc2p1
AIS/RDI
3
4
Shelf2/Slot7/Port5
atc3p1
AIS/RDI
3
4
Shelf3/Slot8/Port6
atc3p2
AIS/RDI
3
4
Trace...
Refresh
897
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
898p
Fault
Configuration
898q
Accounting
898r
Performance
898s
958g
ATM
958h
Connections
958i
Interfaces
958j
System
SONET
958f
958k
Security
898t
192.168.9.202
Profile: patty
Ready

FIG. 8C

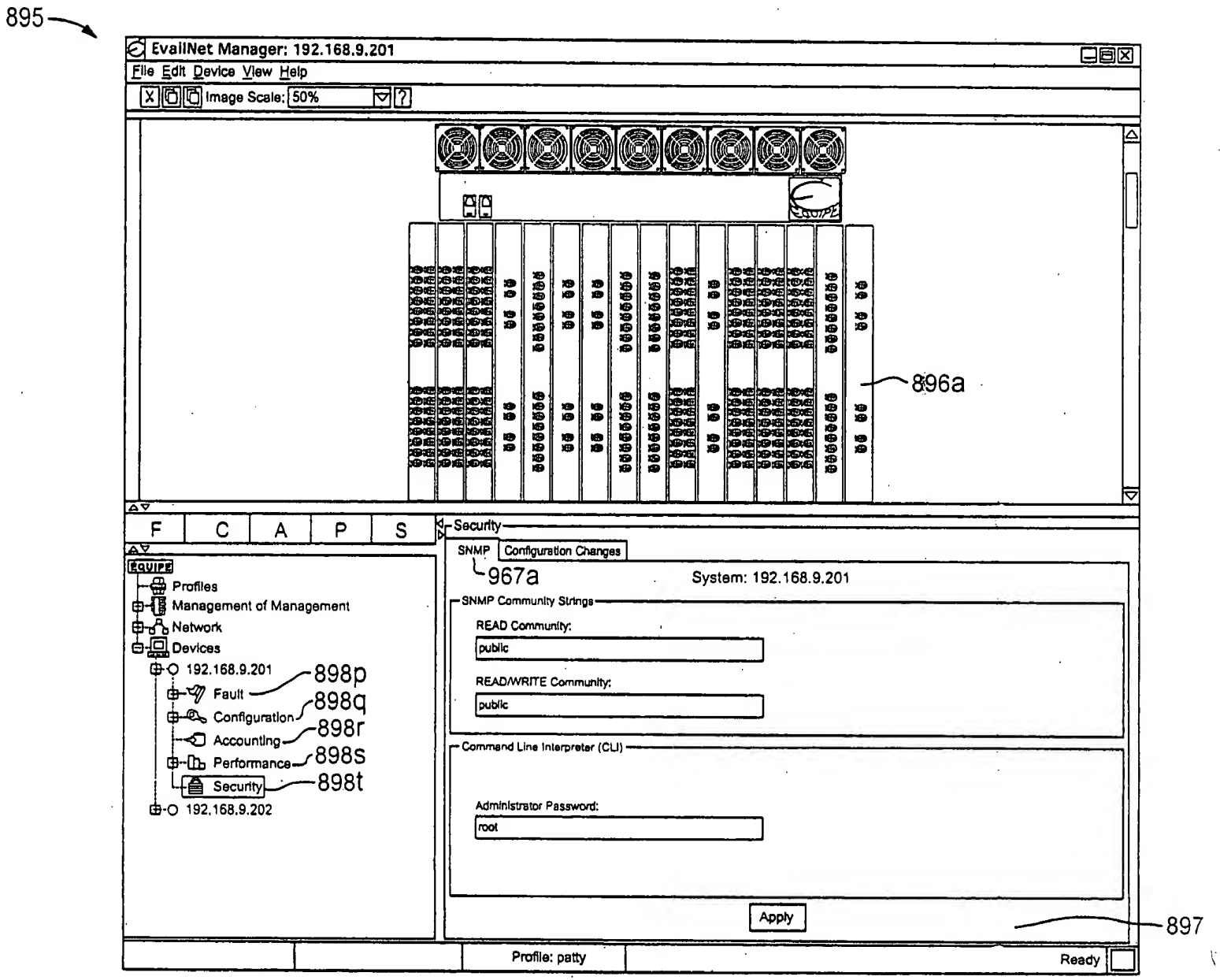

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
Security
192.168.9.202
898p
898q
898r
898s
898t
Security
SNMP
Configuration Changes
967a
System: 192.168.9.201
SNMP Community Strings
READ Community:
public
READ/WRITE Community:
public
Command Line Interpreter (CLI)
Administrator Password:
root
Apply
897
Profile: patty
Ready

FIG. 8D

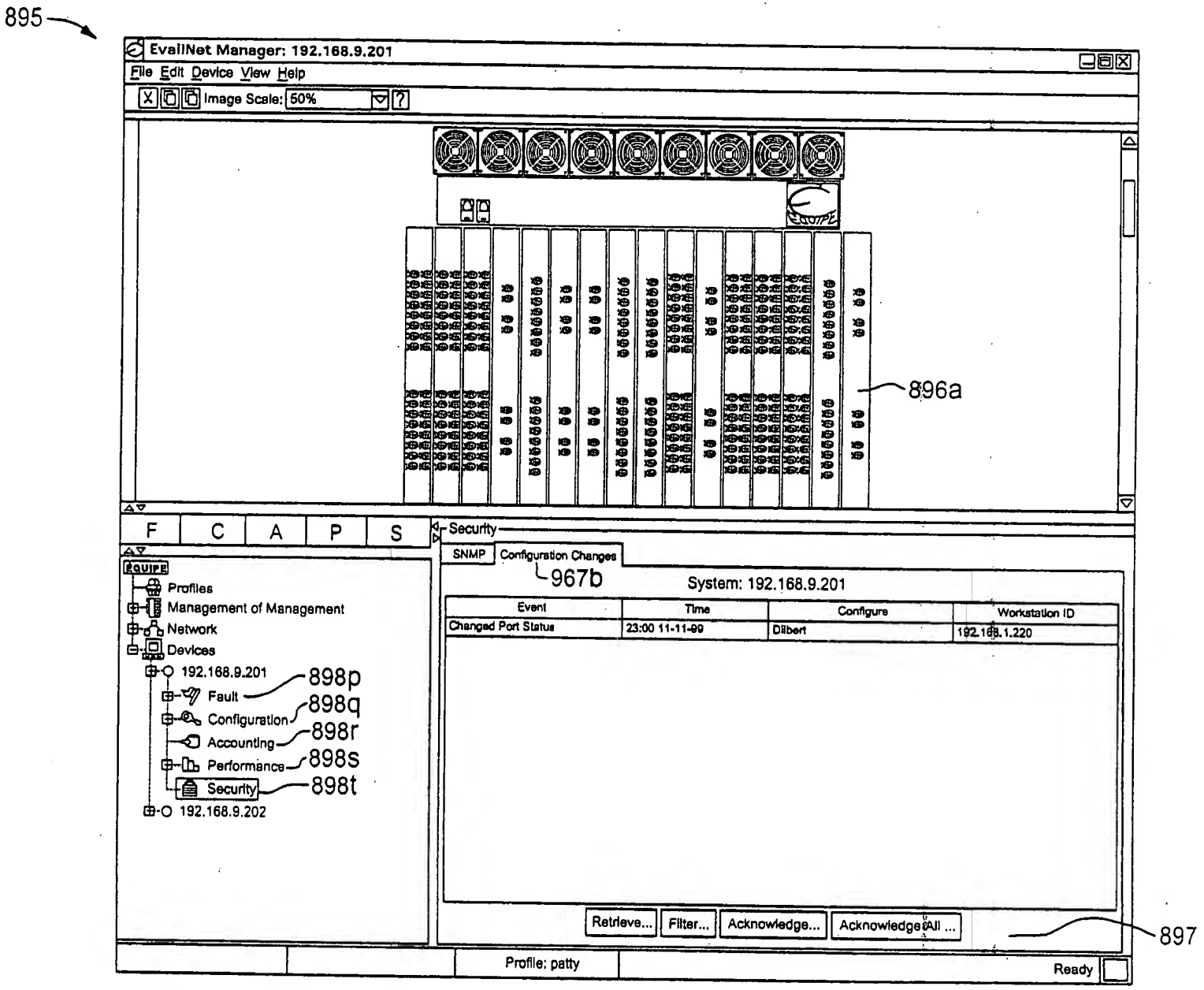

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F
C
A
P
S
Security
SNMP
Configuration Changes
967b
System: 192.168.9.201
Event
Time
Configure
Workstation ID
Changed Port Status
23:00 11-11-99
Dilbert
192.168.1.220
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
Security
898p
898q
898r
898s
898t
192.168.9.202
Retrieve...
Filter...
Acknowledge...
Acknowledge All ...
897
Profile: patty
Ready

FIG. 8E

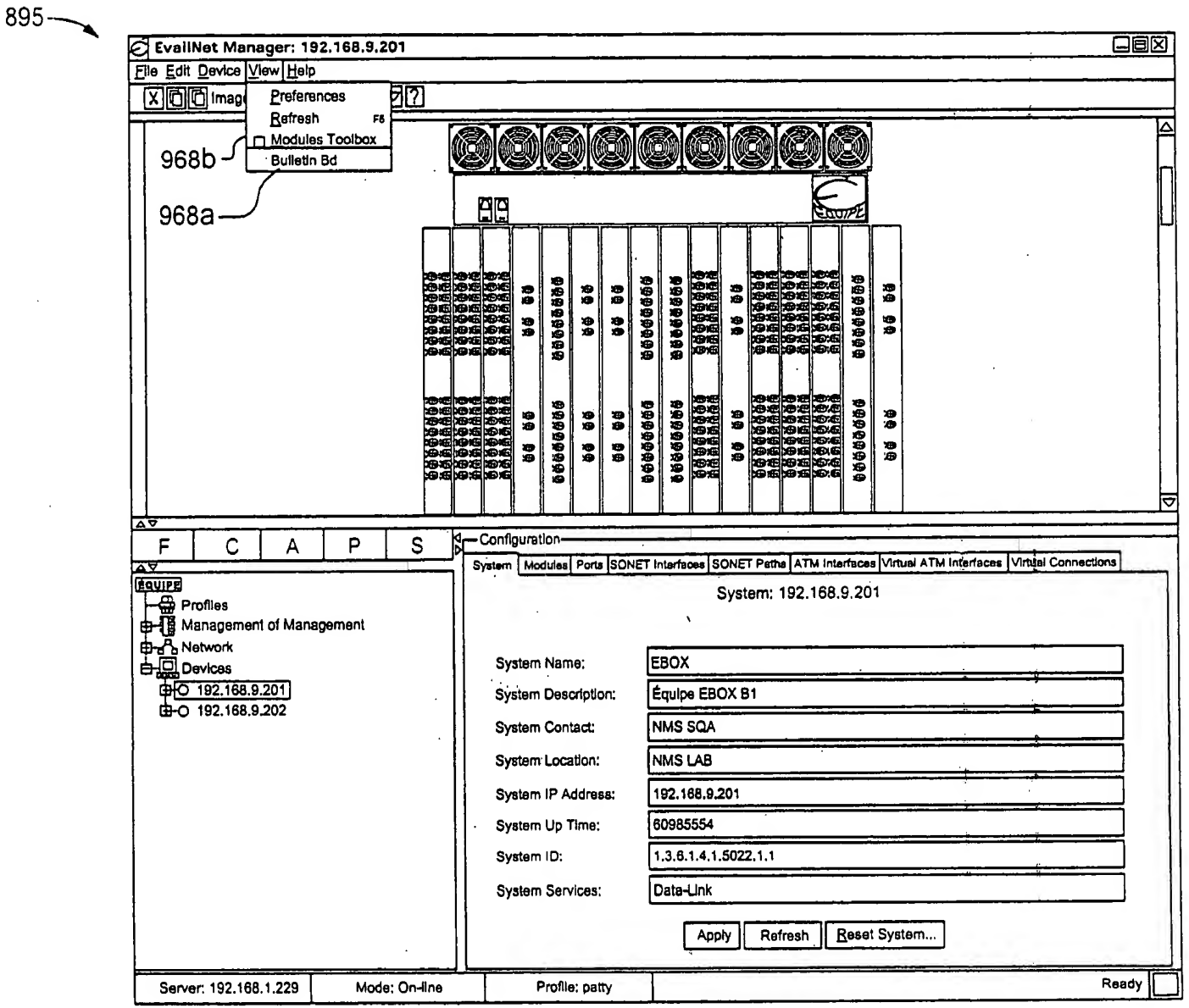

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Preferences
Refresh F5
Modules Toolbox
Bulletin Bd
968b
968a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.201
192.168.9.202
System: 192.168.9.201
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.201
System Up Time: 60985554
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply Refresh Reset System...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 9A

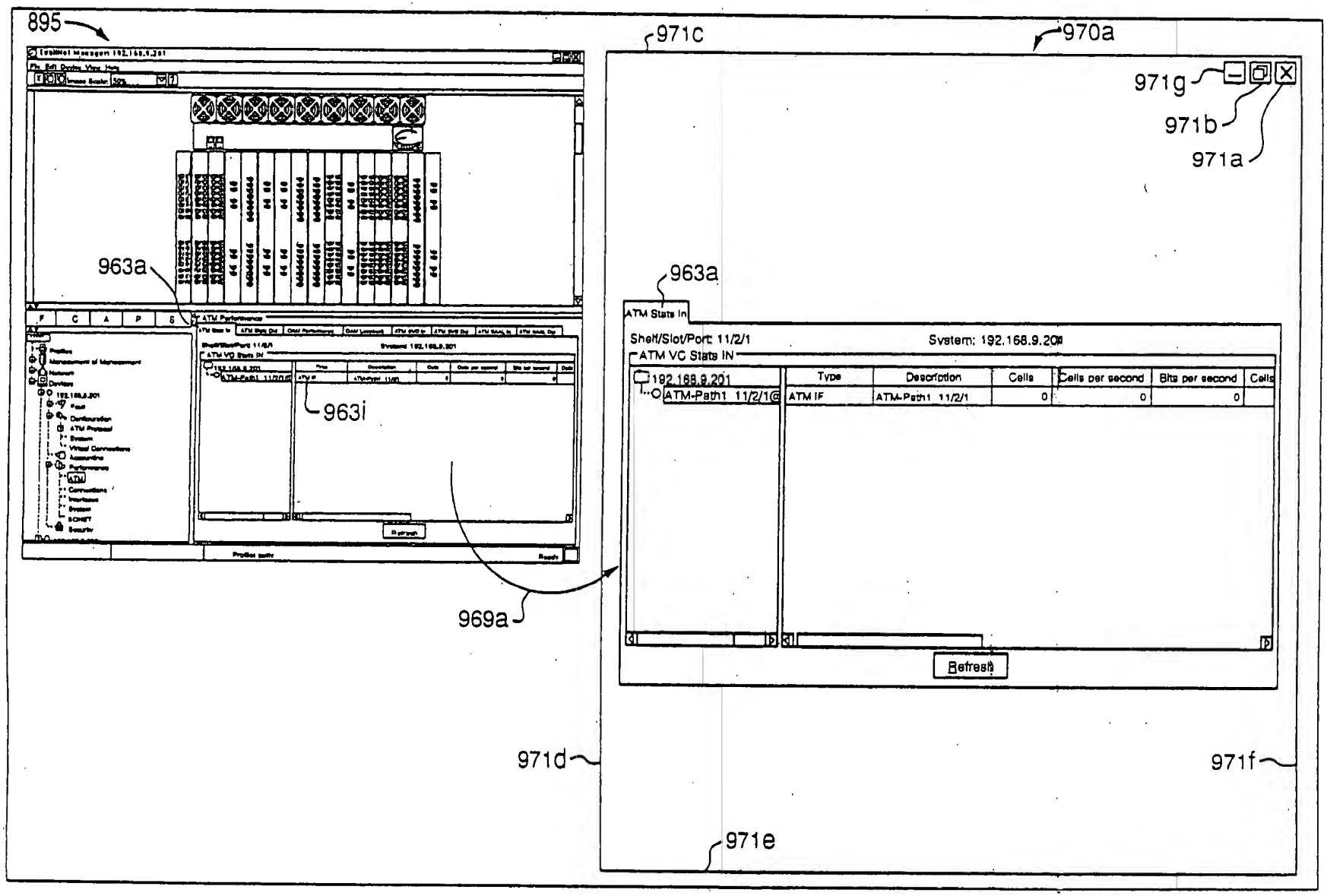

895
971c
970a
971g
971b
971a
963a
963a
ATM Stats In
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM VC Stats IN
192.168.9.201
ATM-Path1 11/2/1@
Type
Description
Cells
Cells per second
Bits per second
ATM IF
ATM-Path1 11/2/1
0
0
0
Refresh
963i
969a
971d
971f
971e

FIG. 9B

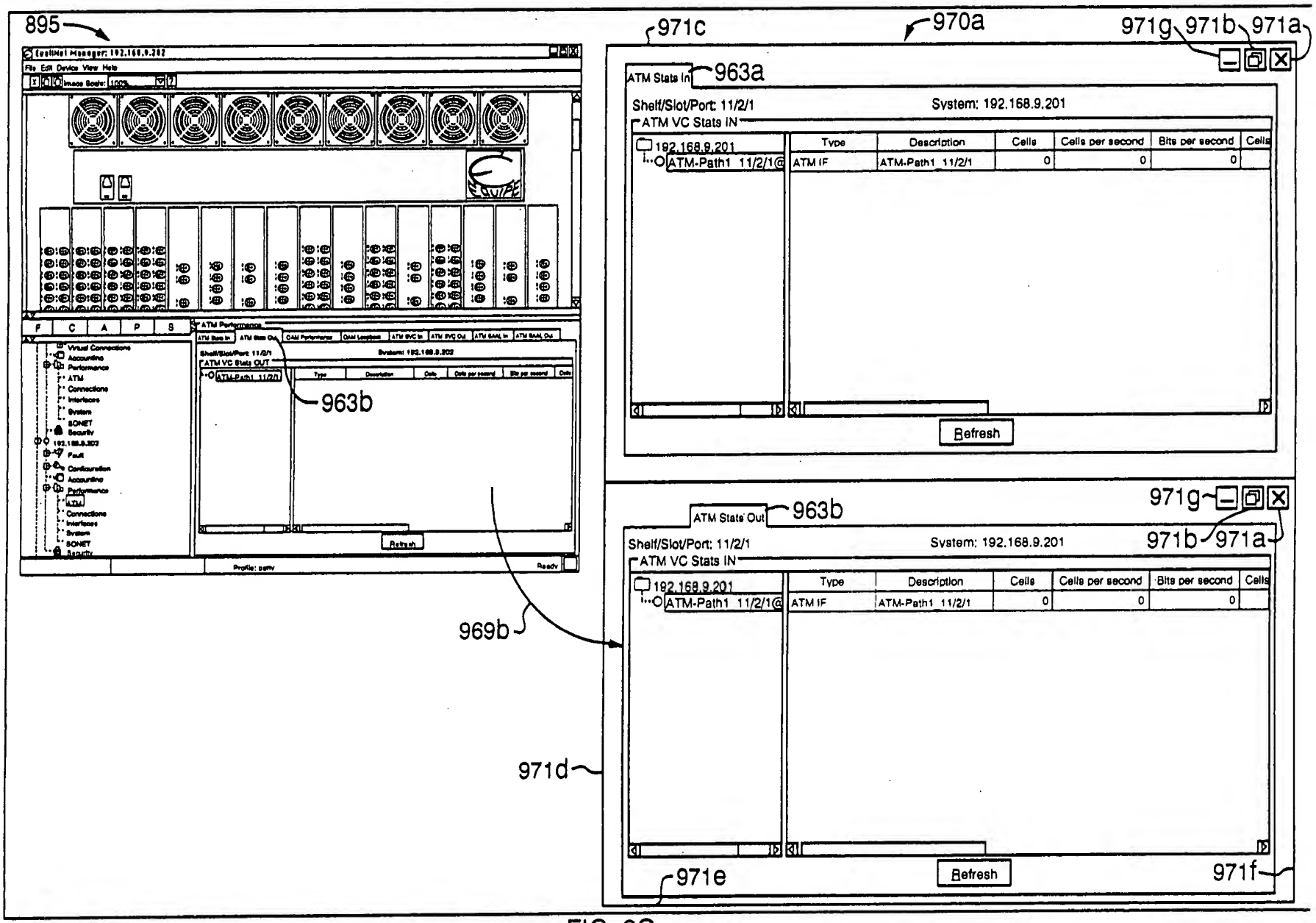

895
971c
970a
971g
971b
971a
963a
ATM Stats In
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM VC Stats IN
192.168.9.201
ATM-Path1_11/2/1@
Type
Description
Cells
Cells per second
Bits per second
ATM IF
ATM-Path1_11/2/1
0
Refresh
963b
963b
ATM Stats Out
ATM VC Stats OUT
969b
971d
971e
971f

FIG. 9C

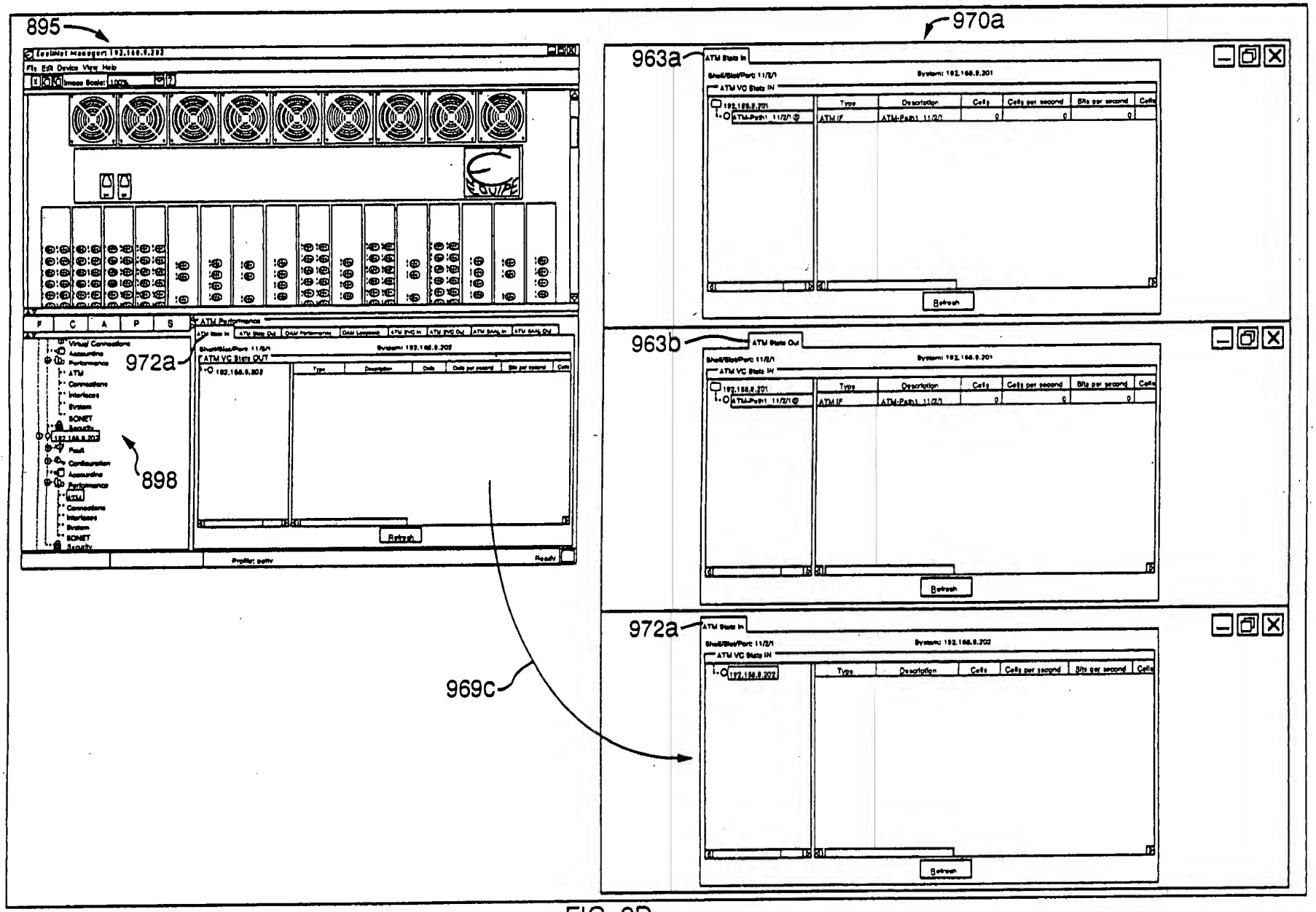


FIG. 9D

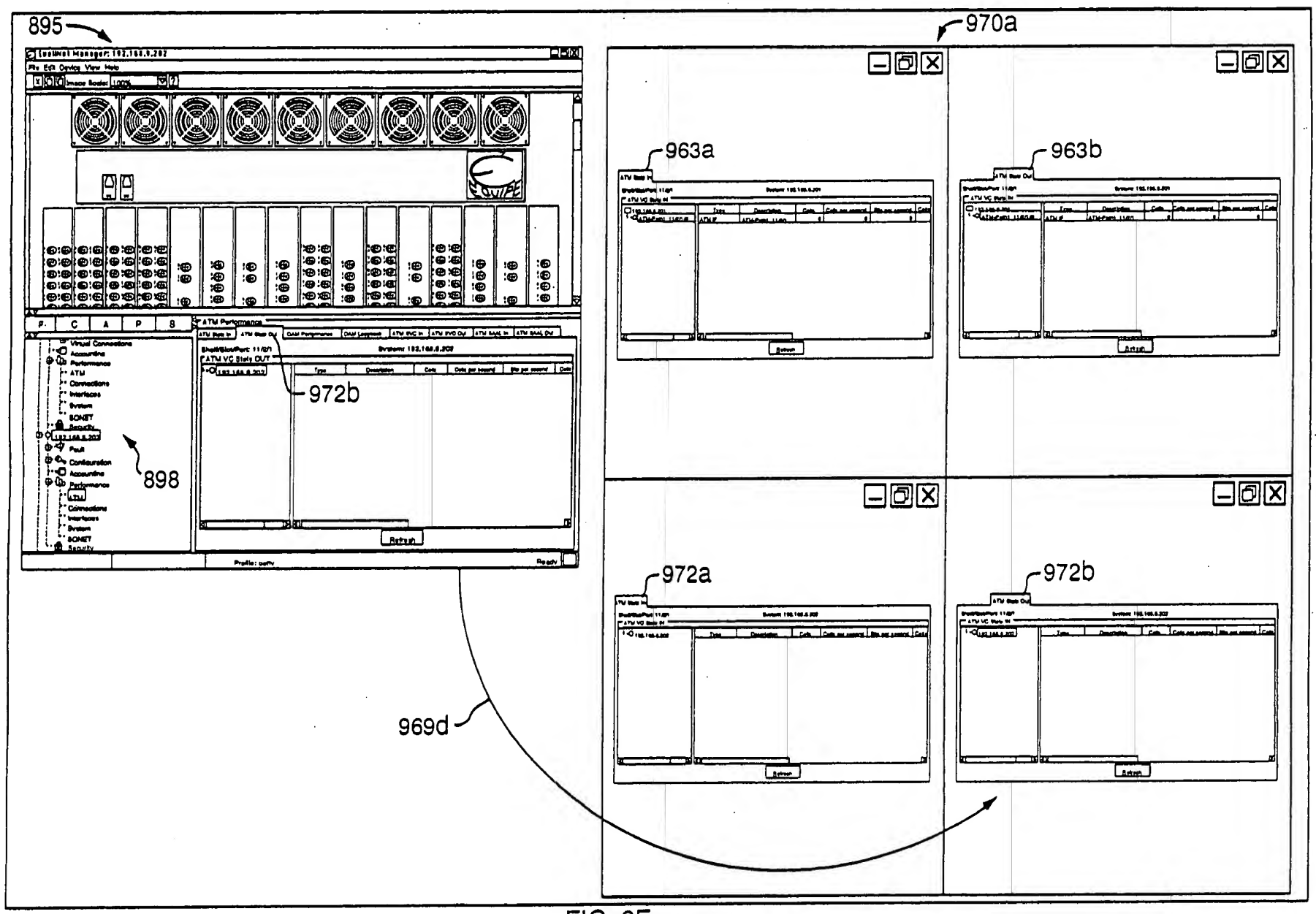


FIG. 9E

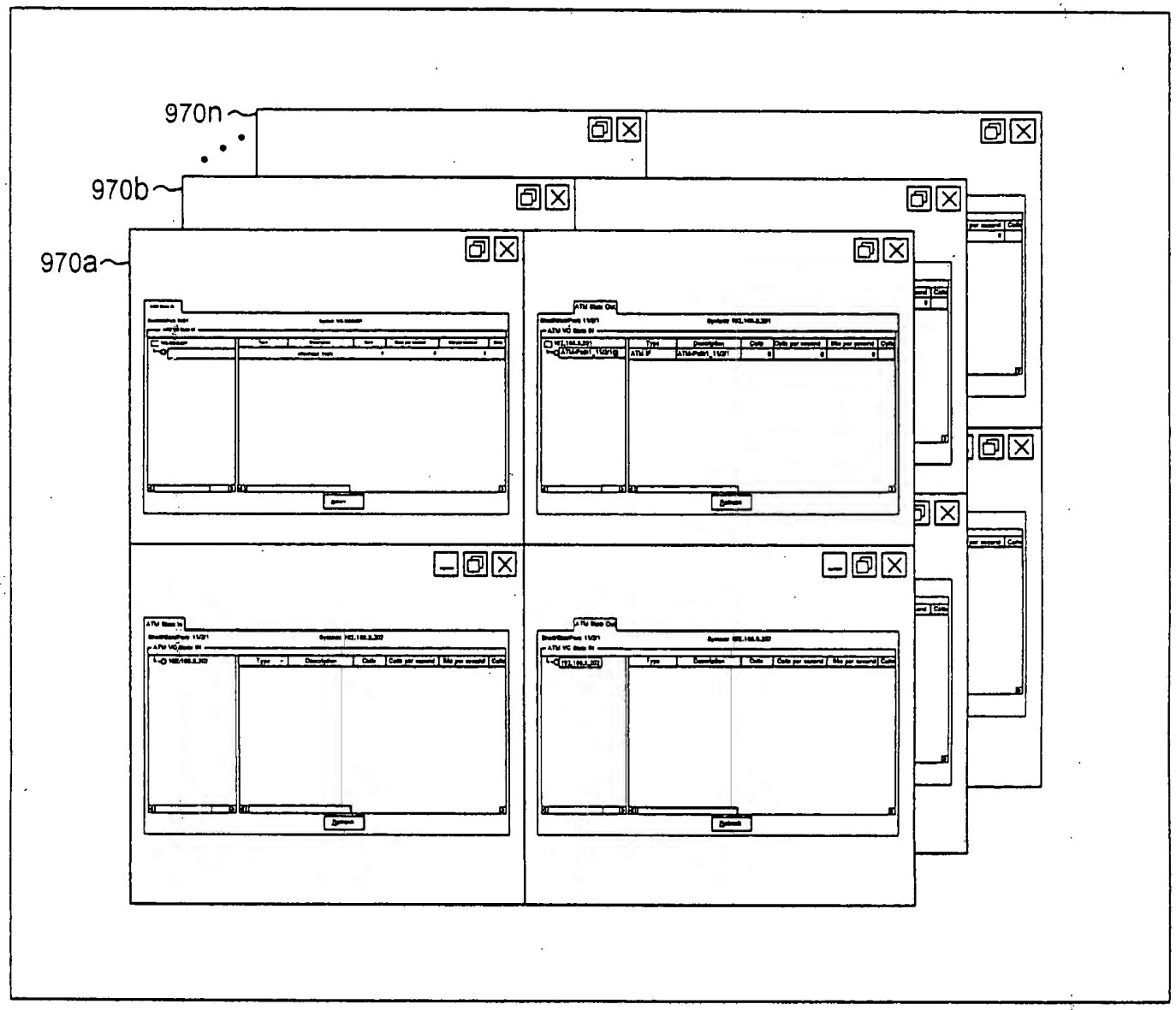


FIG. 9F

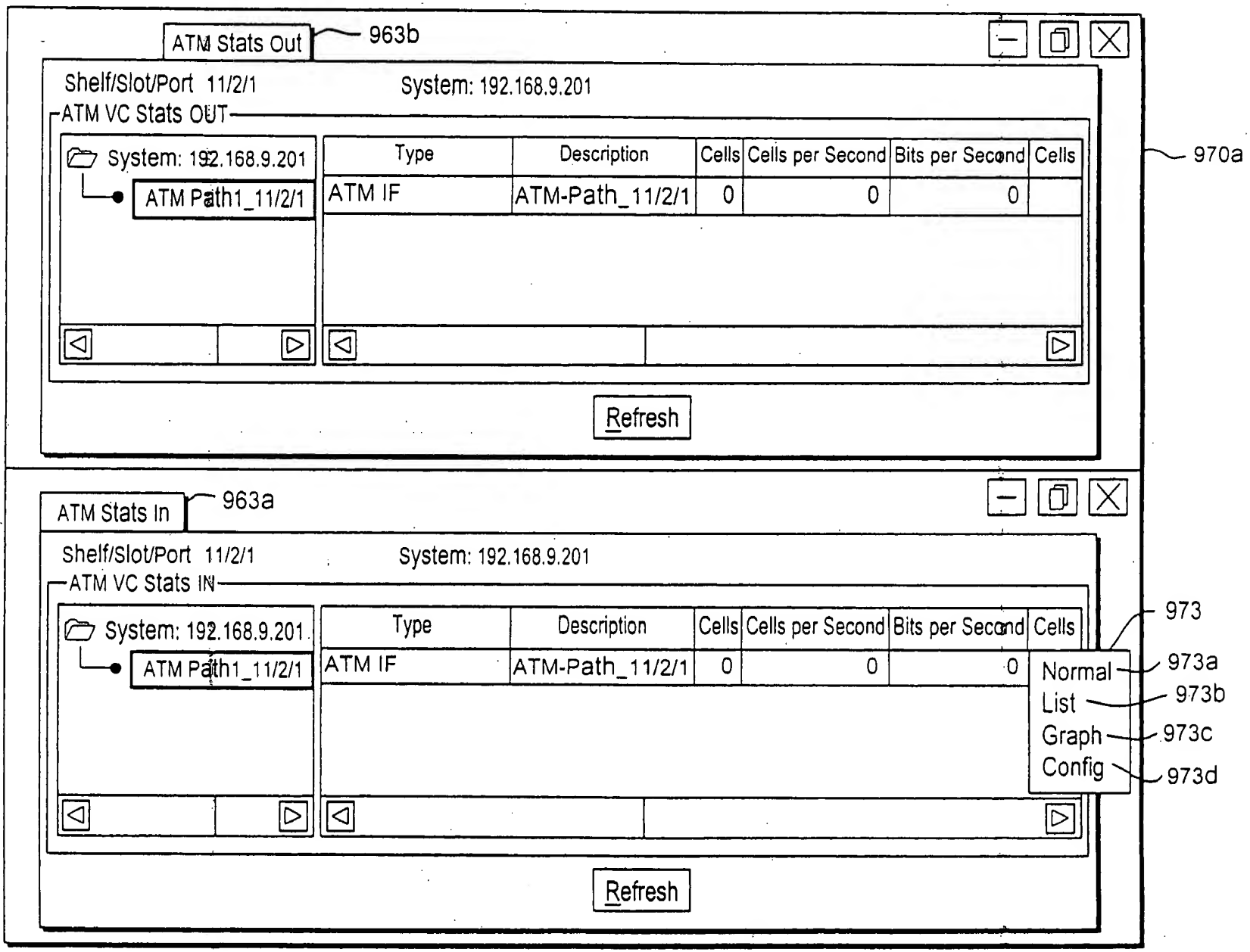

ATM Stats Out
963b
Shelf/Slot/Port 11/2/1
System: 192.168.9.201
ATM VC Stats OUT
System: 192.168.9.201
ATM Path1_11/2/1
Type
Description
Cells
Cells per Second
Bits per Second
Cells
ATM IF
ATM-Path_11/2/1
0
0
0
970a
Refresh
ATM Stats In
963a
Shelf/Slot/Port 11/2/1
System: 192.168.9.201
ATM VC Stats IN
System: 192.168.9.201
ATM Path1_11/2/1
Type
Description
Cells
Cells per Second
Bits per Second
Cells
ATM IF
ATM-Path_11/2/1
0
0
0
973
Normal
973a
List
973b
Graph
973c
Config
973d
Refresh

FIG. 9G

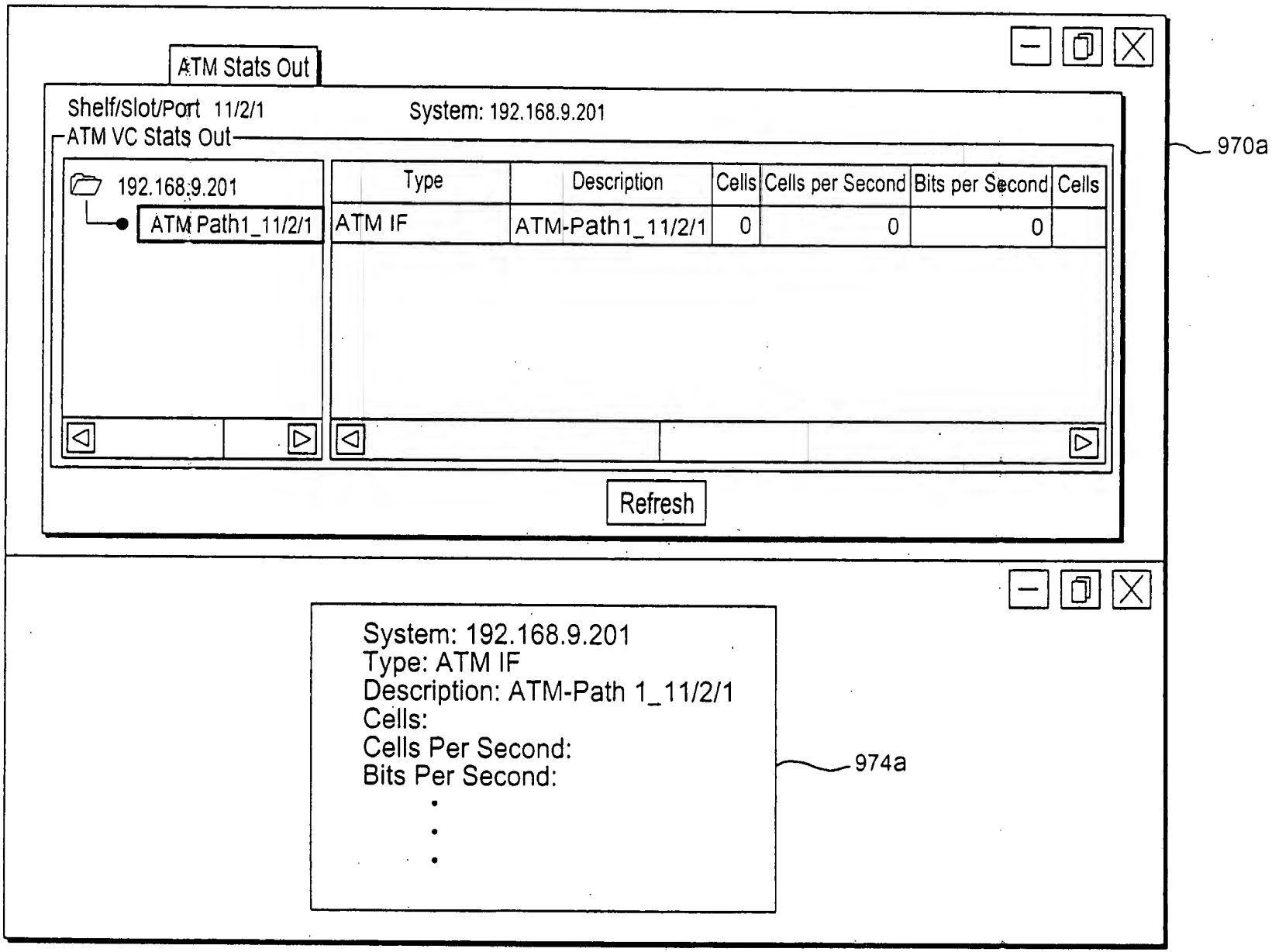

ATM Stats Out
Shelf/Slot/Port 11/2/1
System: 192.168.9.201
ATM VC Stats Out
192.168.9.201
ATM Path1_11/2/1
Type
Description
Cells
Cells per Second
Bits per Second
Cells
ATM IF
ATM-Path1_11/2/1
0
0
0
Refresh
970a
System: 192.168.9.201
Type: ATM IF
Description: ATM-Path 1_11/2/1
Cells:
Cells Per Second:
Bits Per Second:
974a

FIG. 9H

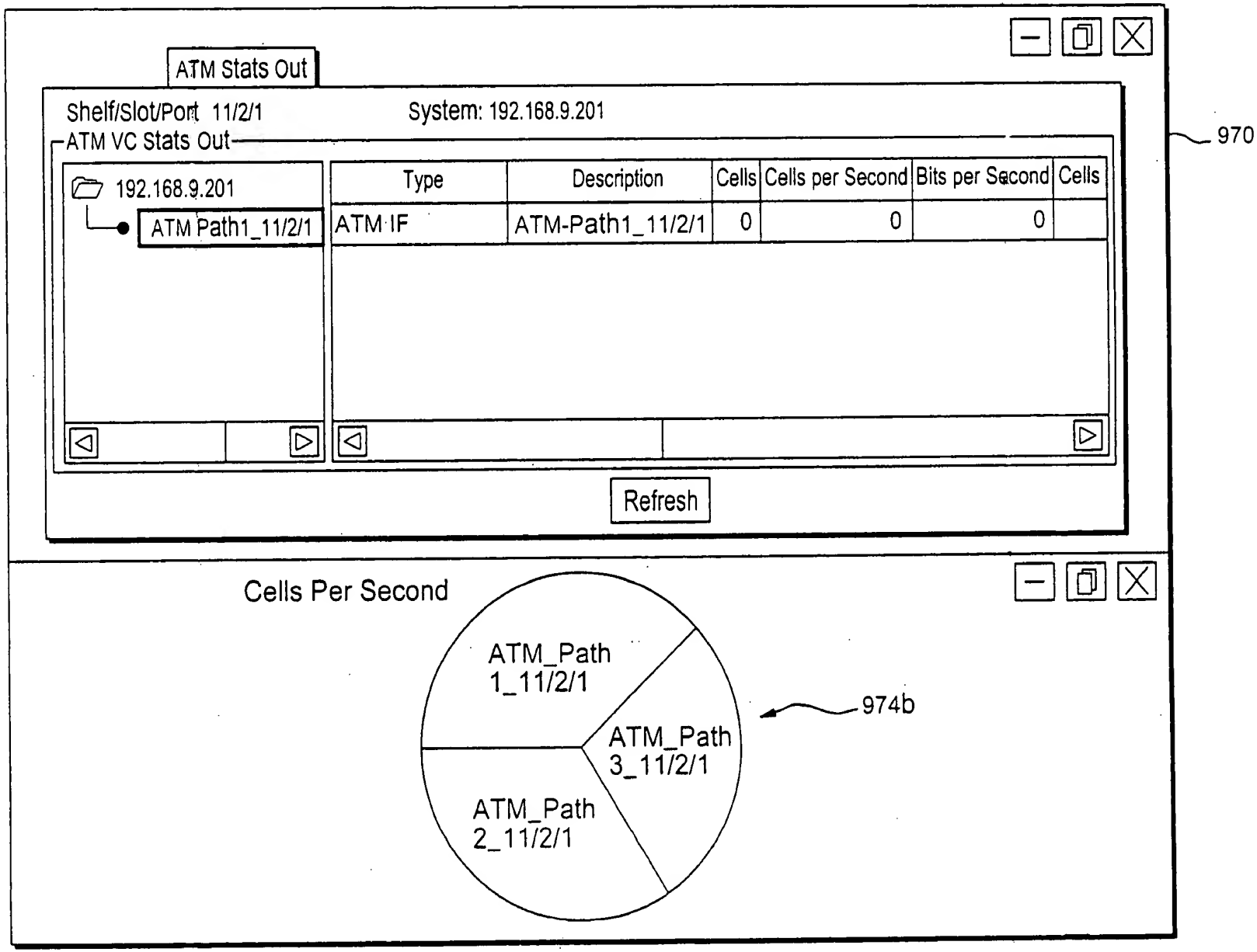

ATM Stats Out
Shelf/Slot/Port 11/2/1
System: 192.168.9.201
ATM VC Stats Out
970
192.168.9.201
ATM Path1_11/2/1
Type
Description
Cells
Cells per Second
Bits per Second
Cells
ATM IF
ATM-Path1_11/2/1
0
0
0
Refresh
Cells Per Second
ATM_Path 1_11/2/1
ATM_Path 3_11/2/1
ATM_Path 2_11/2/1
974b

FIG. 9I

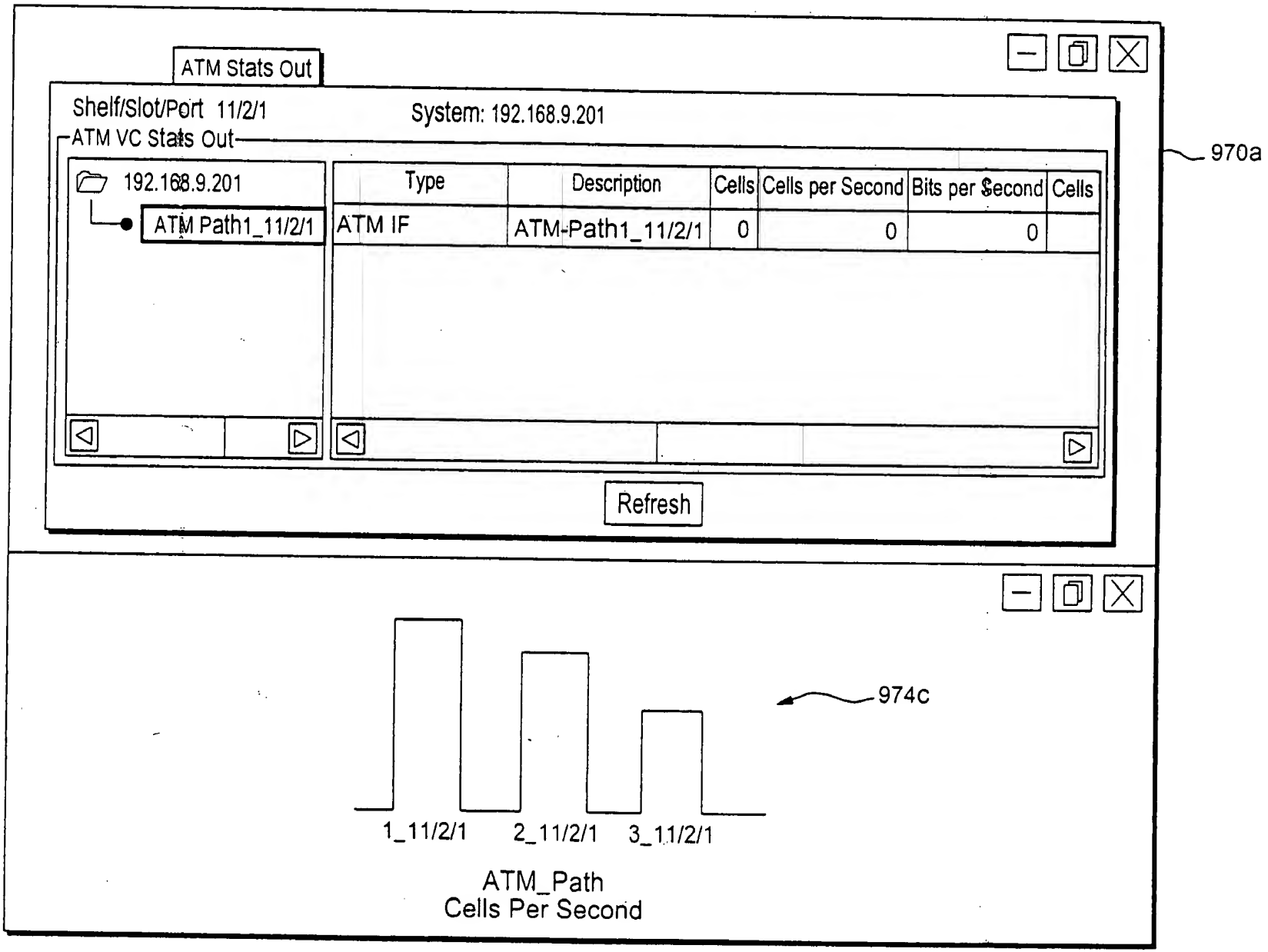

ATM Stats Out
Shelf/Slot/Port 11/2/1
System: 192.168.9.201
ATM VC Stats Out
192.168.9.201
ATM Path1_11/2/1
Type
Description
Cells
Cells per Second
Bits per Second
Cells
ATM IF
ATM-Path1_11/2/1
0
0
0
Refresh
970a
974c
1_11/2/1
2_11/2/1
3_11/2/1
ATM_Path
Cells Per Second

FIG. 9J

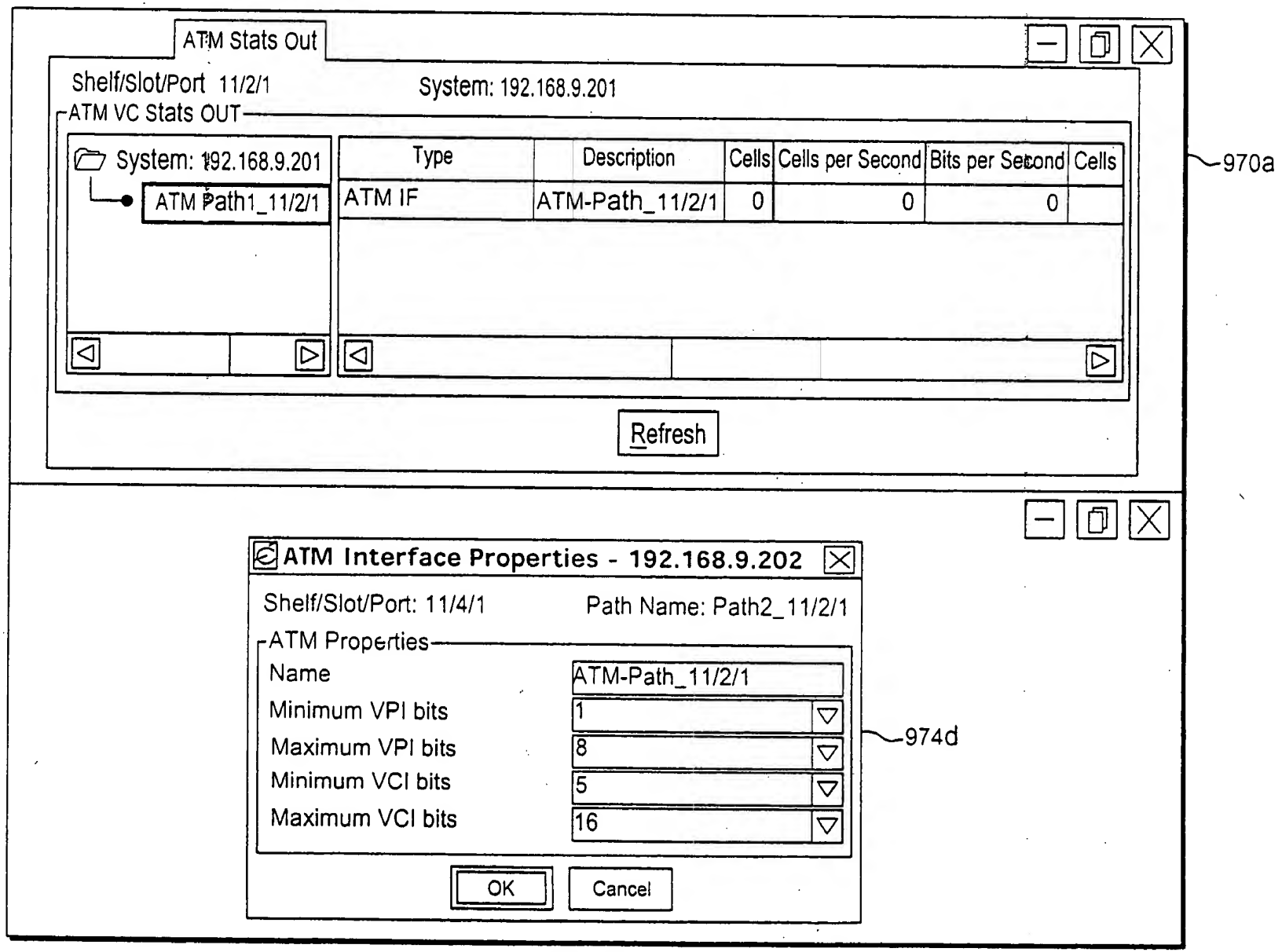

ATM Stats Out
Shelf/Slot/Port 11/2/1
System: 192.168.9.201
ATM VC Stats OUT
System: 192.168.9.201
ATM Path1_11/2/1
Type
Description
Cells
Cells per Second
Bits per Second
Cells
ATM IF
ATM-Path_11/2/1
0
0
0
Refresh
970a
ATM Interface Properties - 192.168.9.202
Shelf/Slot/Port: 11/4/1
Path Name: Path2_11/2/1
ATM Properties
Name
ATM-Path_11/2/1
Minimum VPI bits
1
Maximum VPI bits
8
Minimum VCI bits
5
Maximum VCI bits
16
OK
Cancel
974d

FIG. 9K

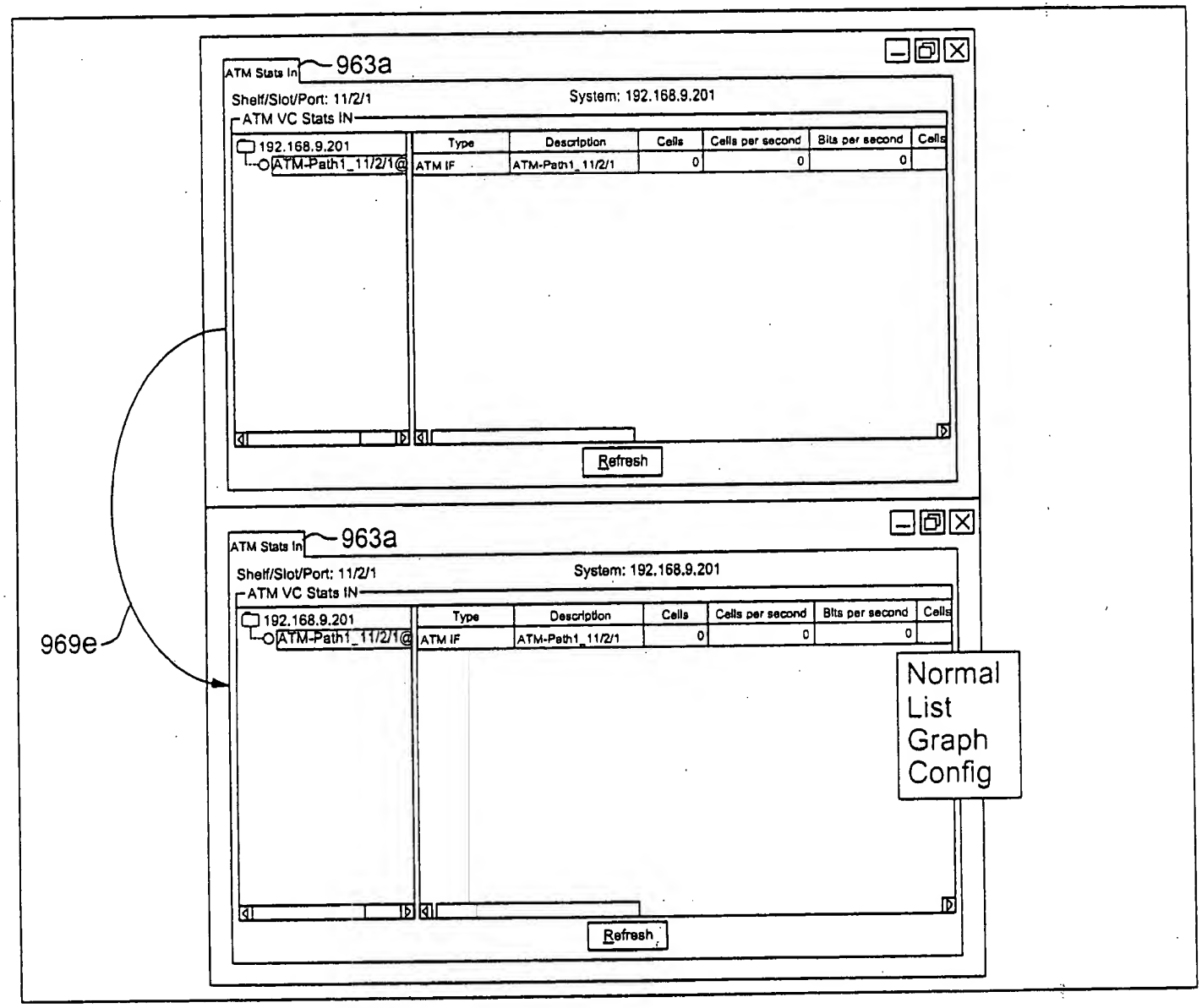

ATM Stats In
963a
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM VC Stats IN
192.168.9.201
ATM-Path1_11/2/1@
Type
Description
Cells
Cells per second
Bits per second
ATM IF
ATM-Path1_11/2/1
0
Refresh
969e
Normal
List
Graph
Config

FIG. 9L

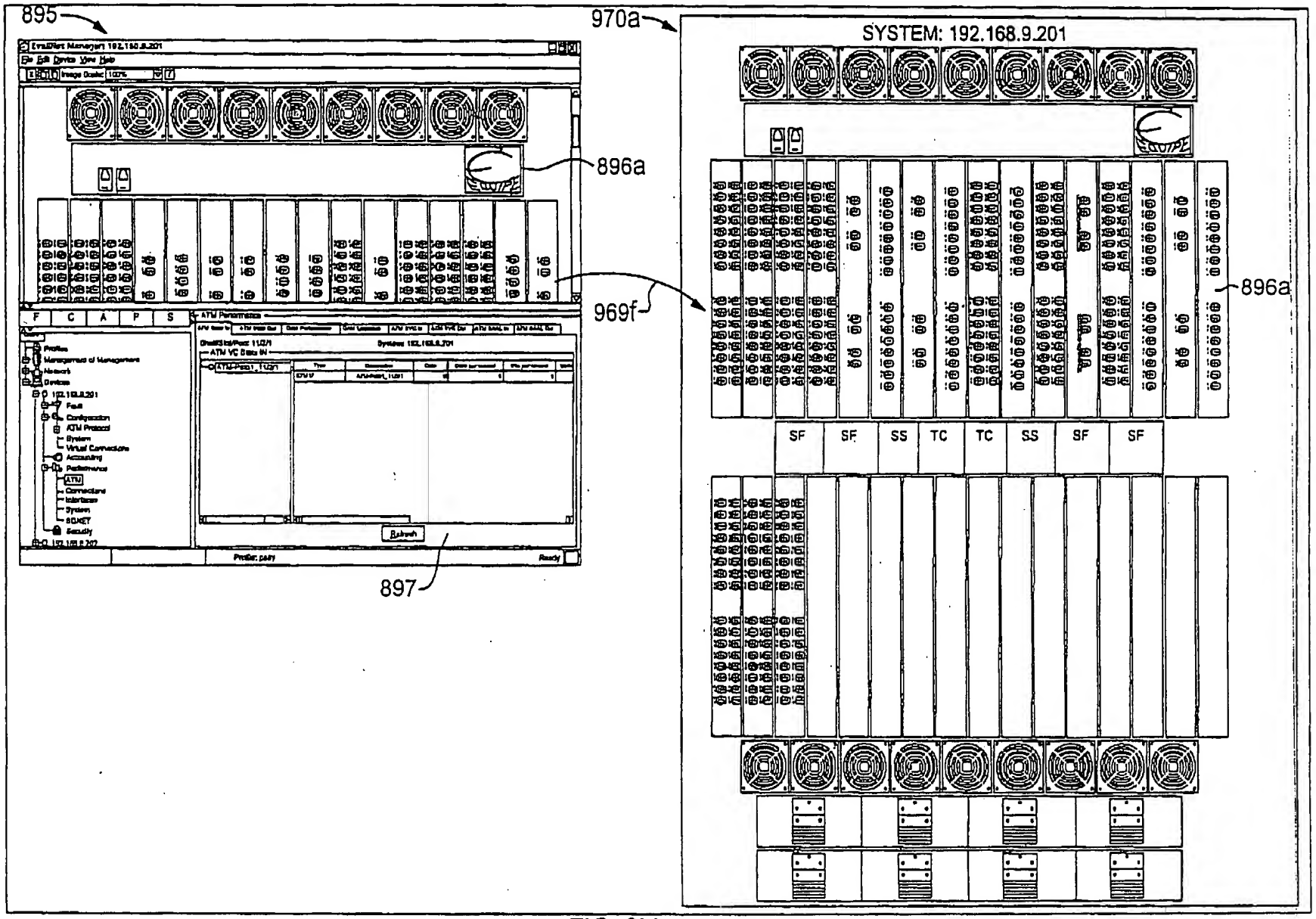

895
970a
SYSTEM: 192.168.9.201
896a
969f
896a
SF
SF
SS
TC
TC
SS
SF
SF
897

FIG. 9M

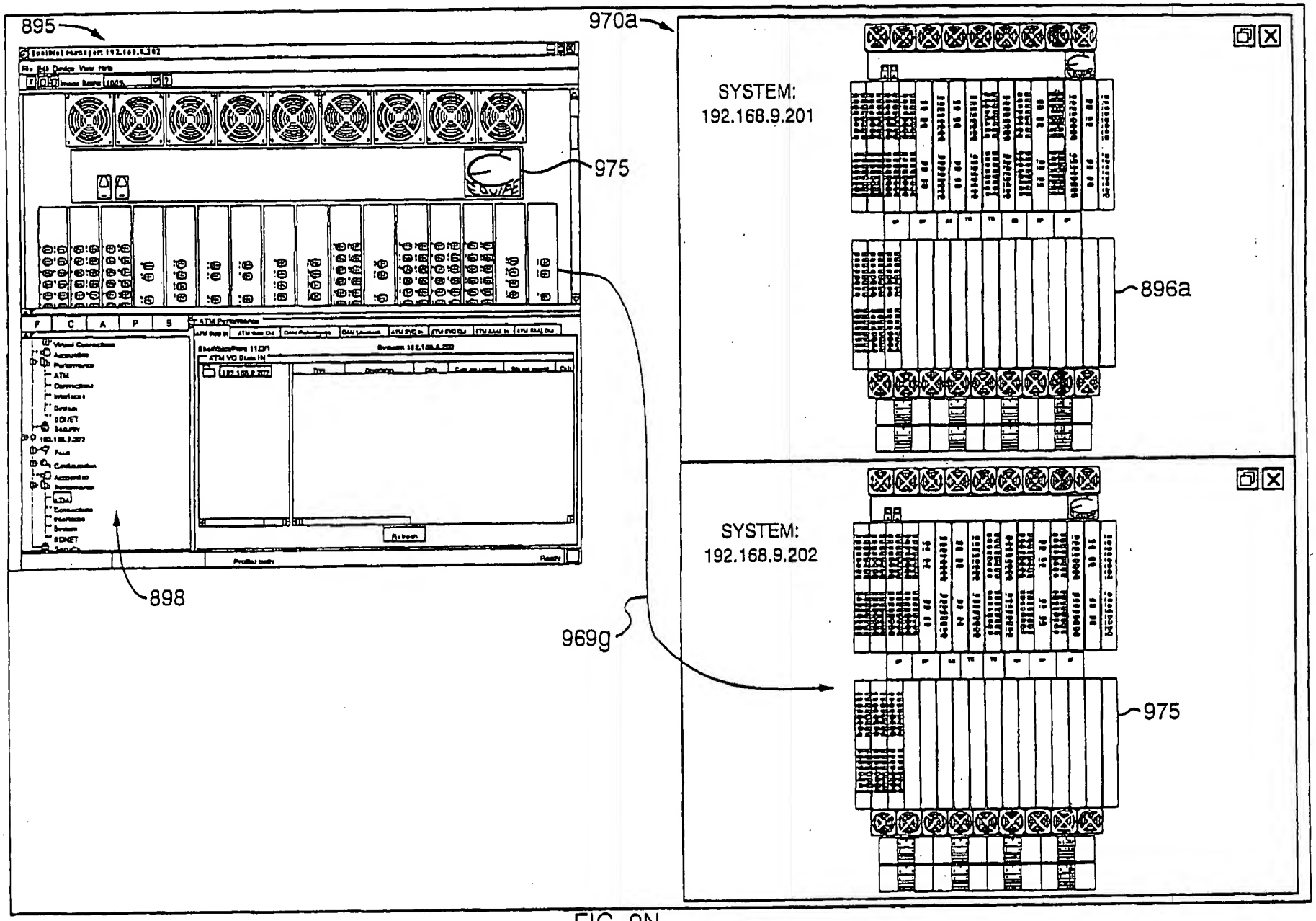

895
970a
975
SYSTEM:
192.168.9.201
896a
898
969g
SYSTEM:
192.168.9.202
975

FIG. 9N

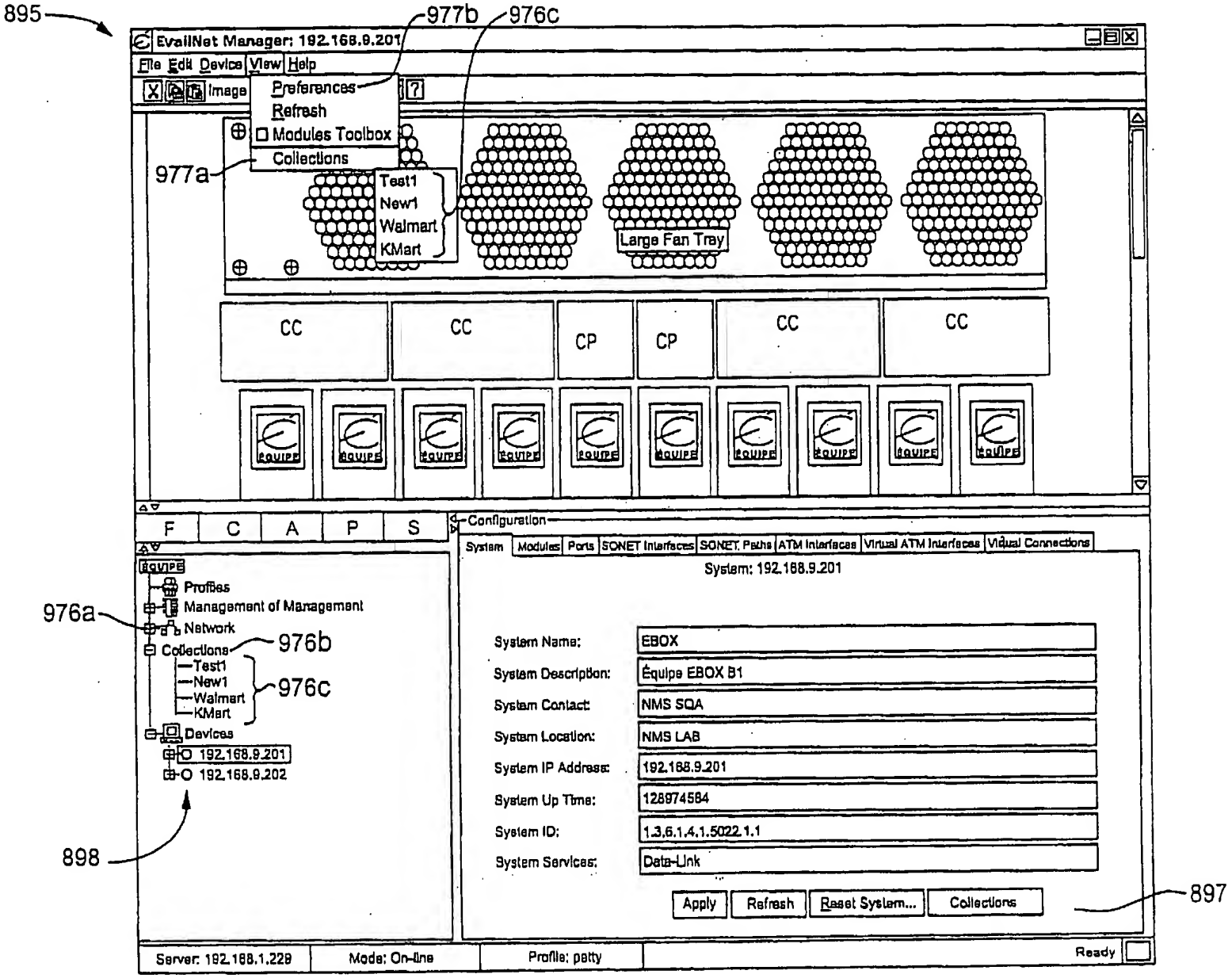

895
977b
976c
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image
Preferences
Refresh
Modules Toolbox
Collections
977a
Test1
New1
Walmart
KMart
Large Fan Tray
CC
CC
CP
CP
CC
CC
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
976a
Profiles
Management of Management
Network
Collections
976b
Test1
New1
Walmart
KMart
976c
Devices
192.168.9.201
192.168.9.202
898
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.201
System Up Time: 128974584
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
Collections
897
Server: 192.168.1.228
Mode: On-line
Profile: patty
Ready

FIG. 10A

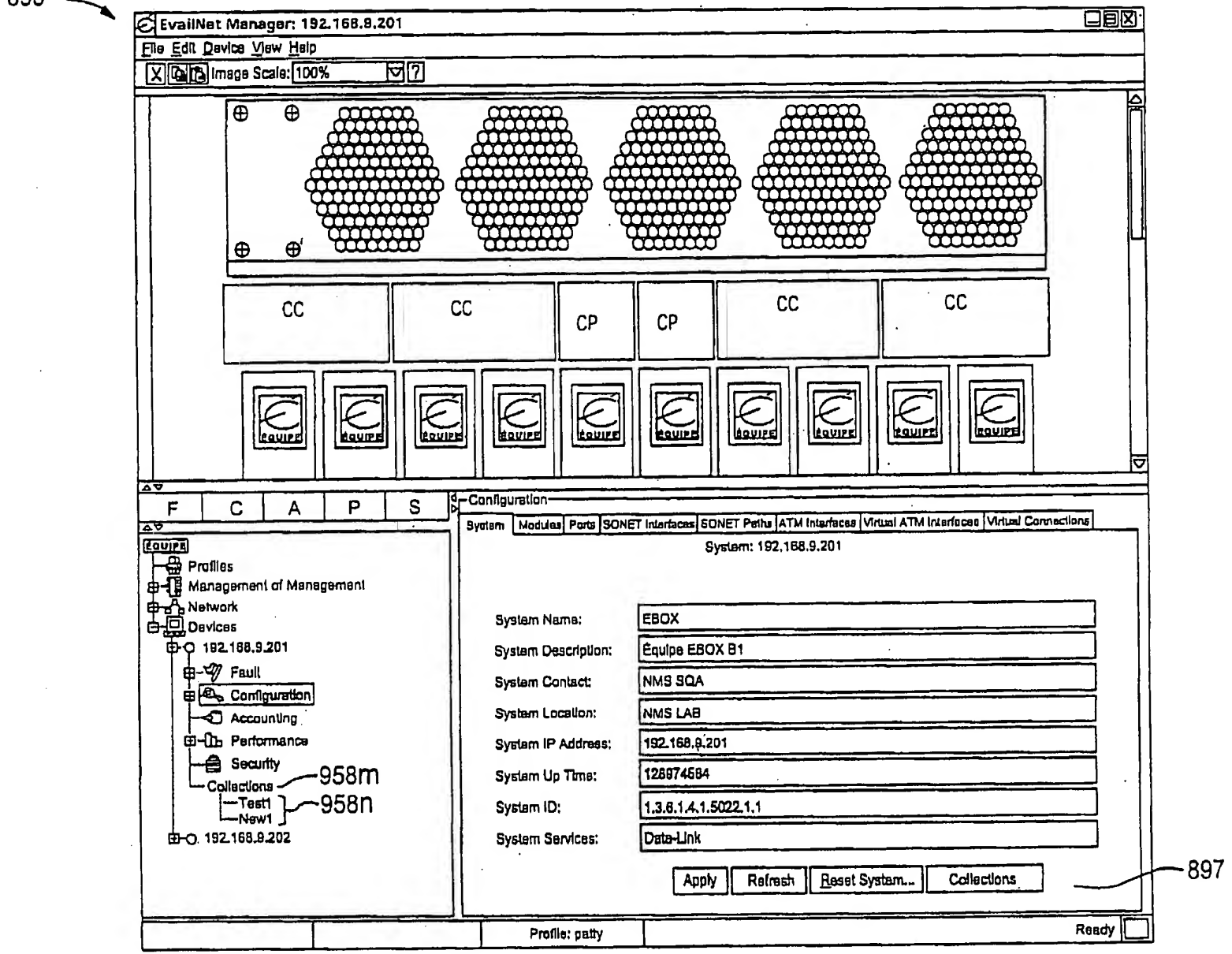

895
EvailNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
CC
CC
CP
CP
CC
CC
F
C
A
P
S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
Security
Collections
958m
Test1
New1
958n
192.168.9.202
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
System Name:
EBOX
System Description:
Equipe EBOX B1
System Contact:
NMS SQA
System Location:
NMS LAB
System IP Address:
192.168.9.201
System Up Time:
128974584
System ID:
1.3.6.1.4.1.5022.1.1
System Services:
Data-Link
Apply
Refresh
Reset System...
Collections
897
Profile: patty
Ready

FIG. 10B

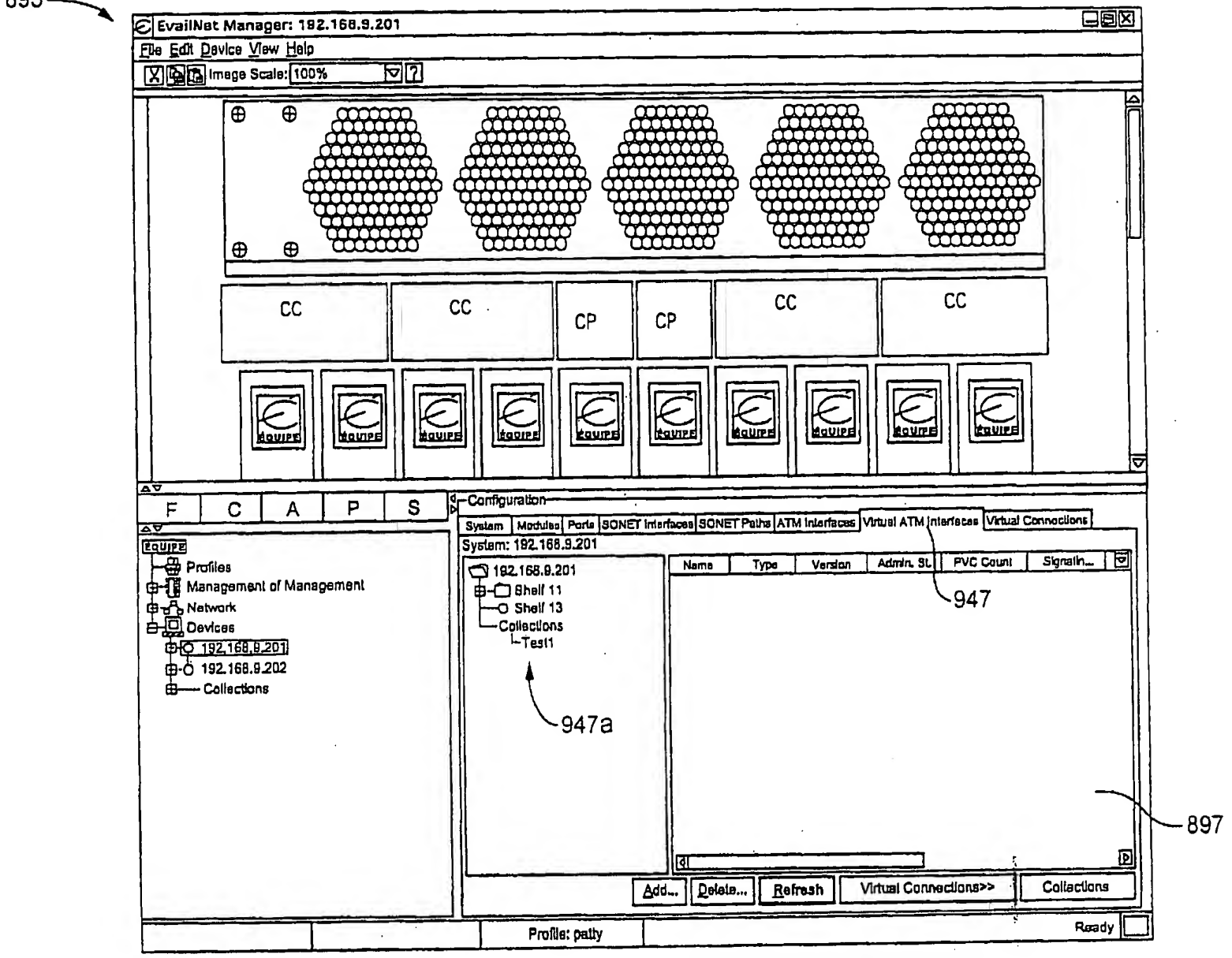

895
EvailNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
CC
CC
CP
CP
CC
CC
F
C
A
P
S
Profiles
Management of Management
Network
Devices
192.168.9.201
192.168.9.202
Collections
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
192.168.9.201
Shelf 11
Shelf 13
Collections
Test1
947a
947
Name
Type
Version
Admin. St.
PVC Count
Signalin...
897
Add...
Delete...
Refresh
Virtual Connections>>
Collections
Profile: patty
Ready

FIG. 10C

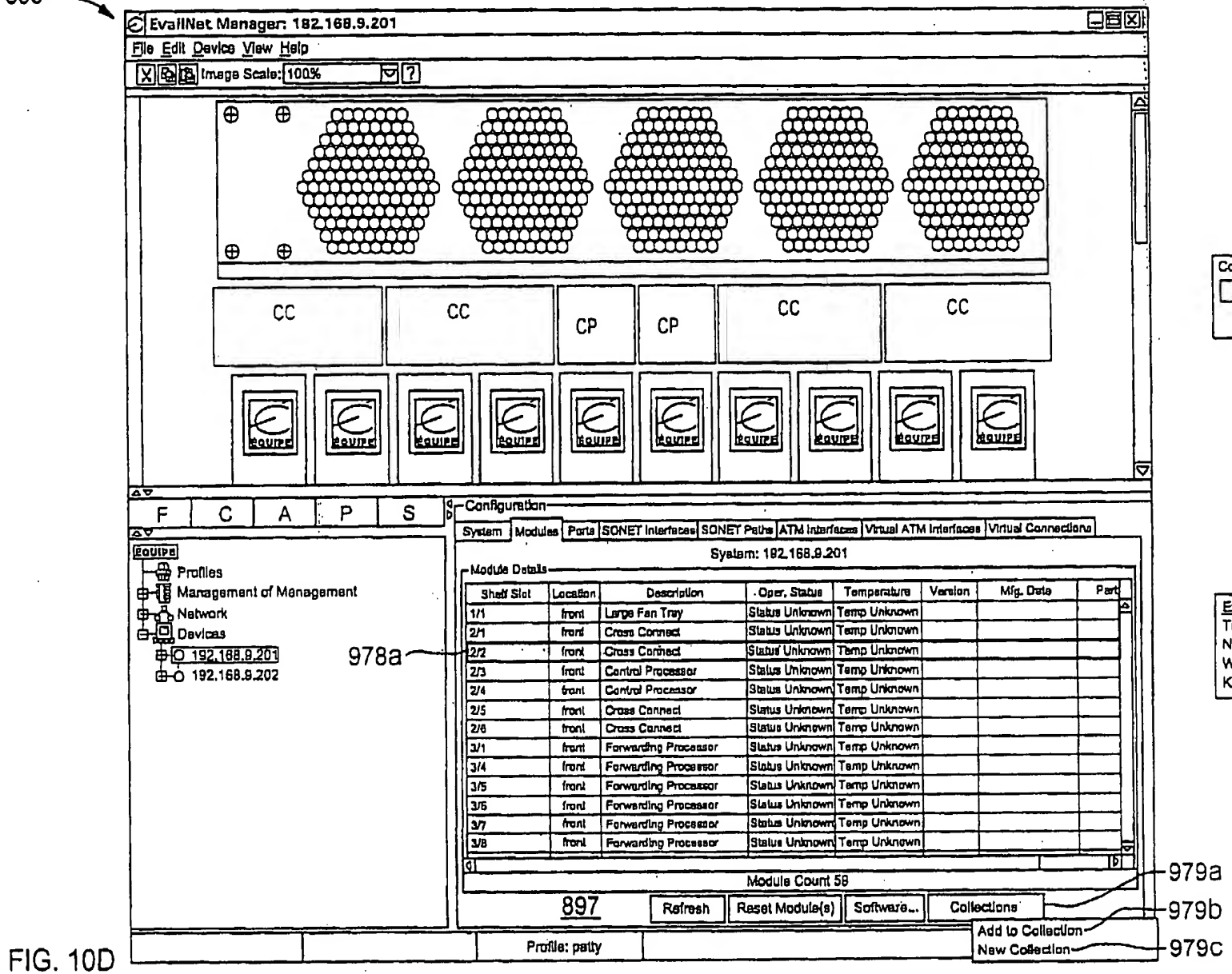


FIG. 10D

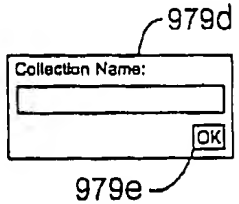


FIG. 10E

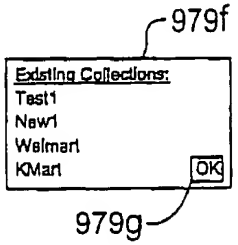


FIG. 10F

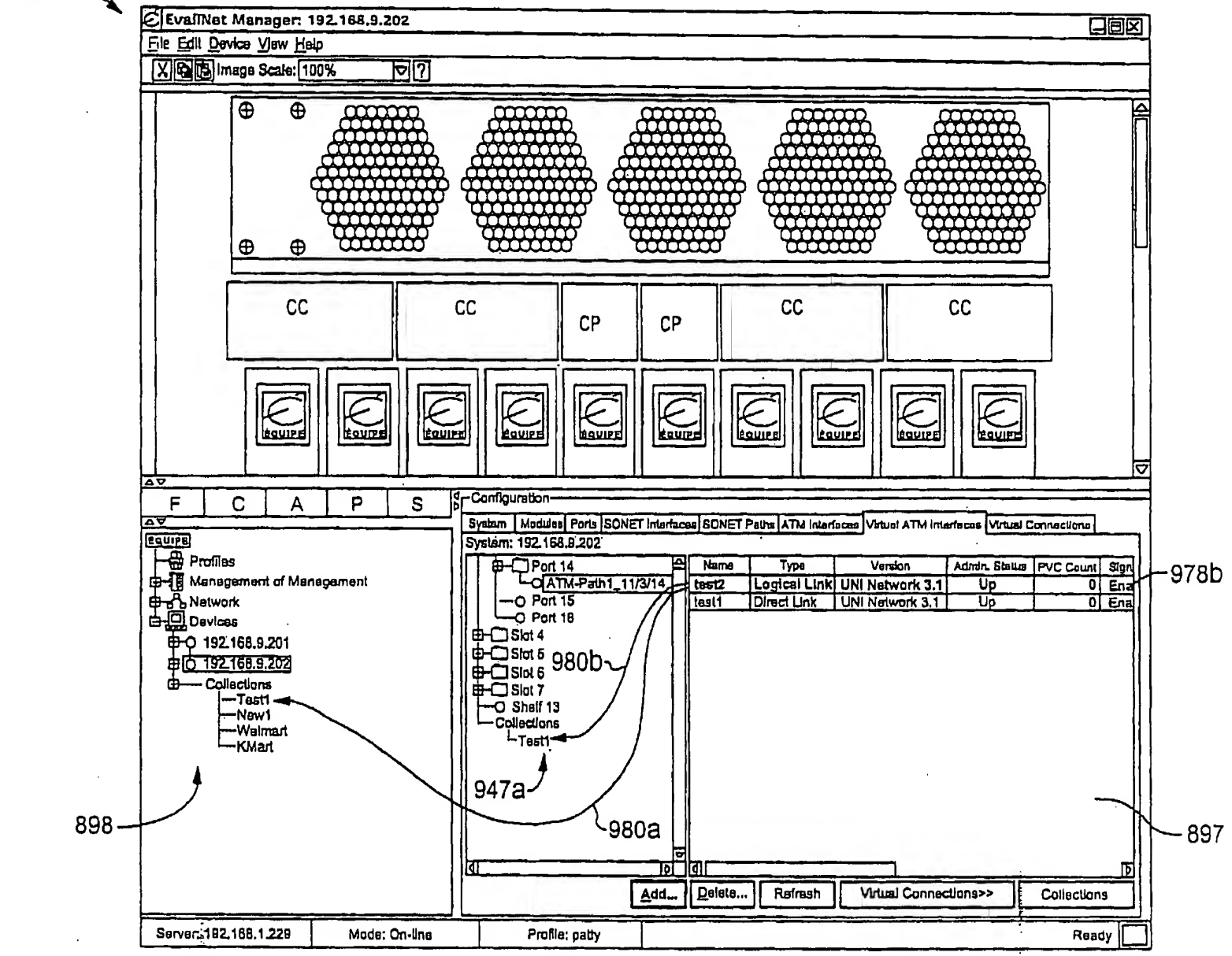

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
CC
CC
CP
CP
CC
CC
F
C
A
P
S
Profiles
Management of Management
Network
Devices
192.168.9.201
192.168.9.202
Collections
Test1
New1
Walmart
KMart
898
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
Port 14
ATM-Path1_11/3/14
Port 15
Port 18
Slot 4
Slot 5
Slot 6
Slot 7
Shelf 13
Collections
Test1
980b
947a
980a
Name
Type
Version
Admin. Status
PVC Count
Sign
test2
Logical Link
UNI Network 3.1
Up
0
Ena
test1
Direct Link
UNI Network 3.1
Up
0
Ena
978b
897
Add...
Delete...
Refresh
Virtual Connections>>
Collections
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 10G

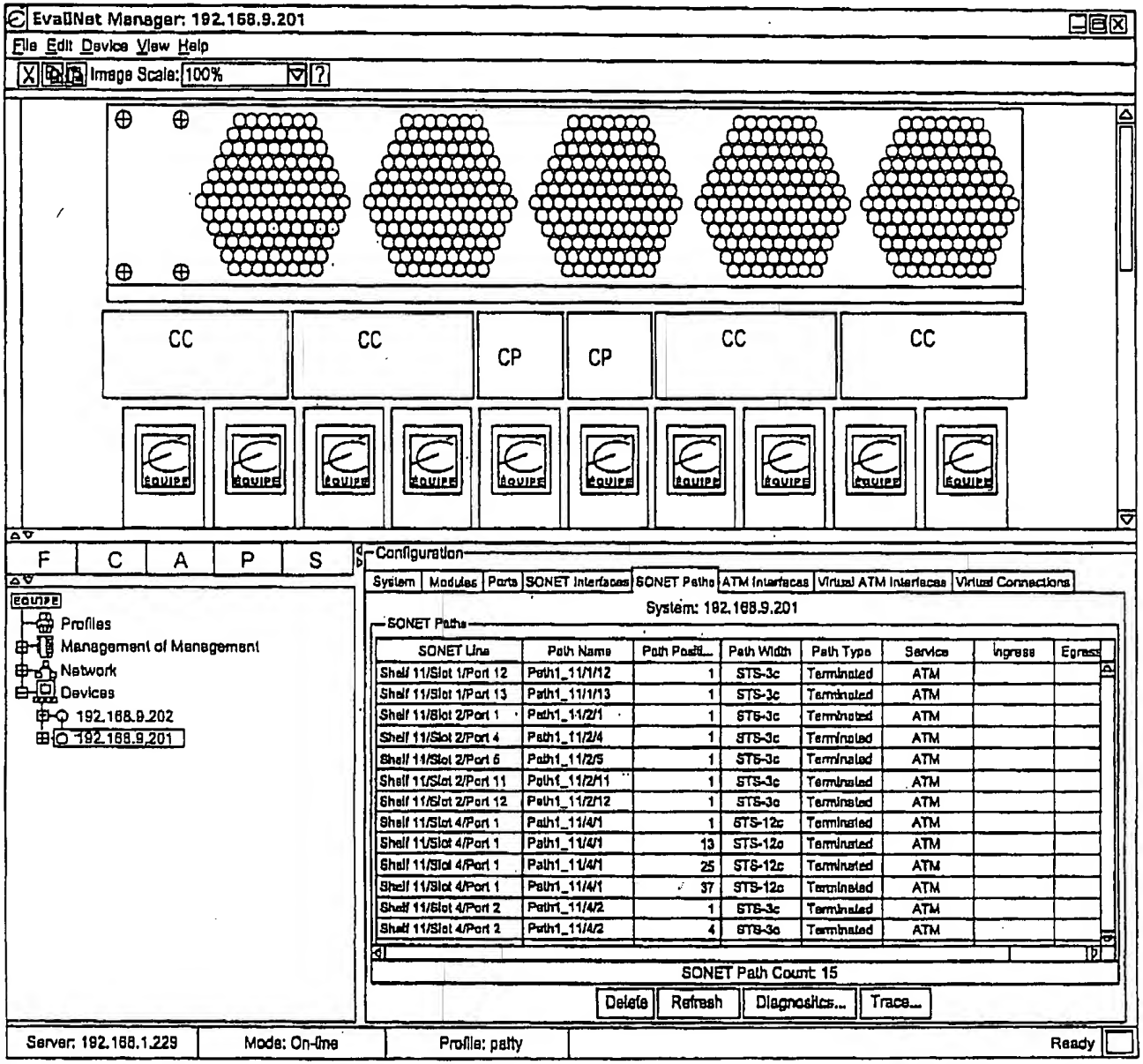

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
CC
CC
CP
CP
CC
CC
F
C
A
P
S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
SONET Paths
SONET Line
Path Name
Path Positi...
Path Width
Path Type
Service
Ingress
Egress
Shelf 11/Slot 1/Port 12 Path1_11/1/12 1 STS-3c Terminated ATM
Shelf 11/Slot 1/Port 13 Path1_11/1/13 1 STS-3c Terminated ATM
Shelf 11/Slot 2/Port 1 Path1_11/2/1 1 STS-3c Terminated ATM
Shelf 11/Slot 2/Port 4 Path1_11/2/4 1 STS-3c Terminated ATM
Shelf 11/Slot 2/Port 6 Path1_11/2/6 1 STS-3c Terminated ATM
Shelf 11/Slot 2/Port 11 Path1_11/2/11 1 STS-3c Terminated ATM
Shelf 11/Slot 2/Port 12 Path1_11/2/12 1 STS-3c Terminated ATM
Shelf 11/Slot 4/Port 1 Path1_11/4/1 1 STS-12c Terminated ATM
Shelf 11/Slot 4/Port 1 Path1_11/4/1 13 STS-12c Terminated ATM
Shelf 11/Slot 4/Port 1 Path1_11/4/1 25 STS-12c Terminated ATM
Shelf 11/Slot 4/Port 1 Path1_11/4/1 37 STS-12c Terminated ATM
Shelf 11/Slot 4/Port 2 Path1_11/4/2 1 STS-3c Terminated ATM
Shelf 11/Slot 4/Port 2 Path1_11/4/2 4 STS-3c Terminated ATM
SONET Path Count: 15
Delete
Refresh
Diagnostics...
Trace...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 10H

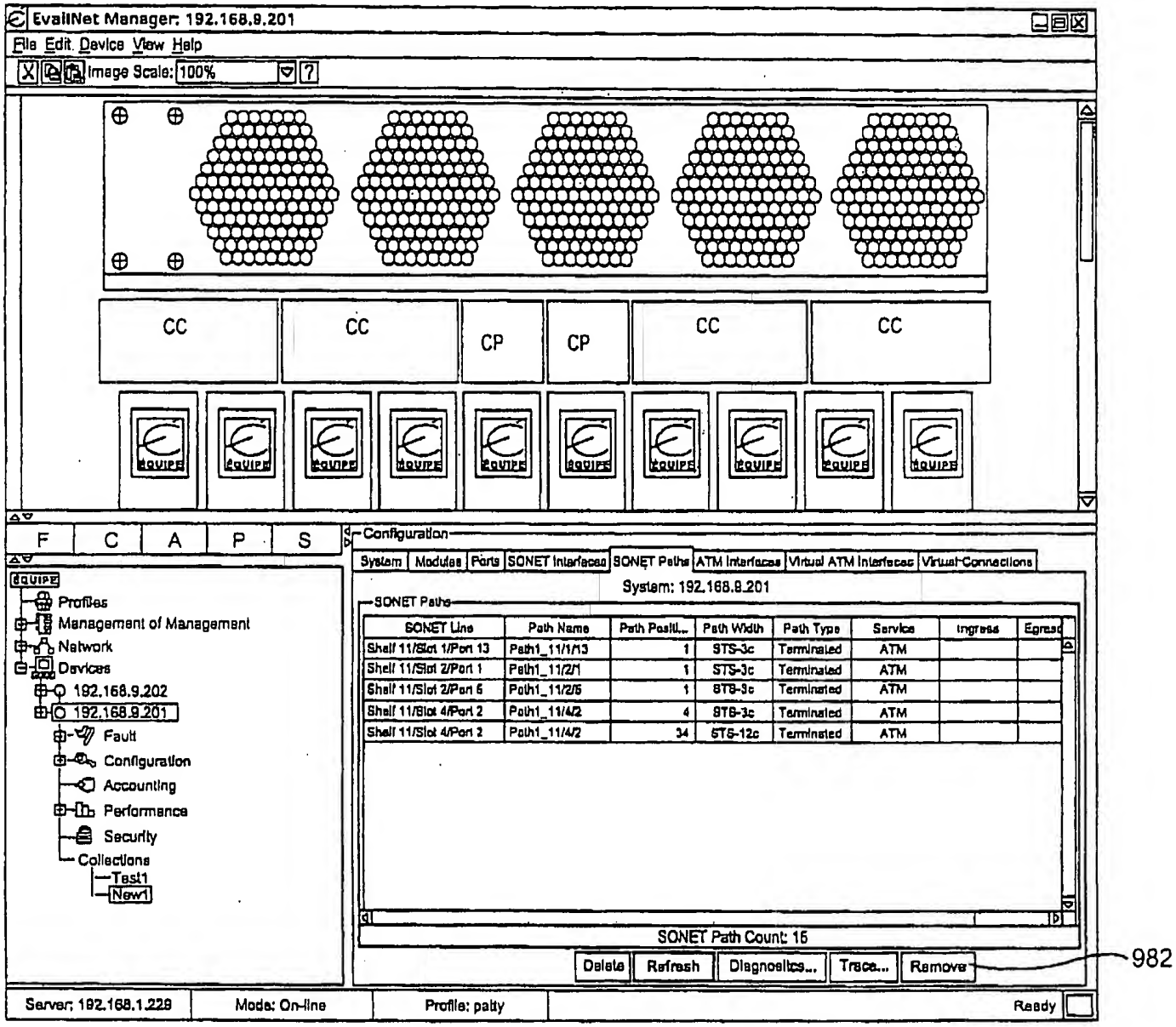

EvailNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
CC
CC
CP
CP
CC
CC
F
C
A
P
S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Fault
Configuration
Accounting
Performance
Security
Collections
Test1
New1
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
SONET Paths
SONET Line
Path Name
Path Positi...
Path Width
Path Type
Service
Ingress
Egress
Shelf 11/Slot 1/Port 13
Path1_11/1/13
1
STS-3c
Terminated
ATM
Shelf 11/Slot 2/Port 1
Path1_11/2/1
1
STS-3c
Terminated
ATM
Shelf 11/Slot 2/Port 6
Path1_11/2/6
1
STS-3c
Terminated
ATM
Shelf 11/Slot 4/Port 2
Path1_11/4/2
4
STS-3c
Terminated
ATM
Shelf 11/Slot 4/Port 2
Path1_11/4/2
34
STS-12c
Terminated
ATM
SONET Path Count: 15
Delete
Refresh
Diagnostics...
Trace...
Remove
982
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 10I

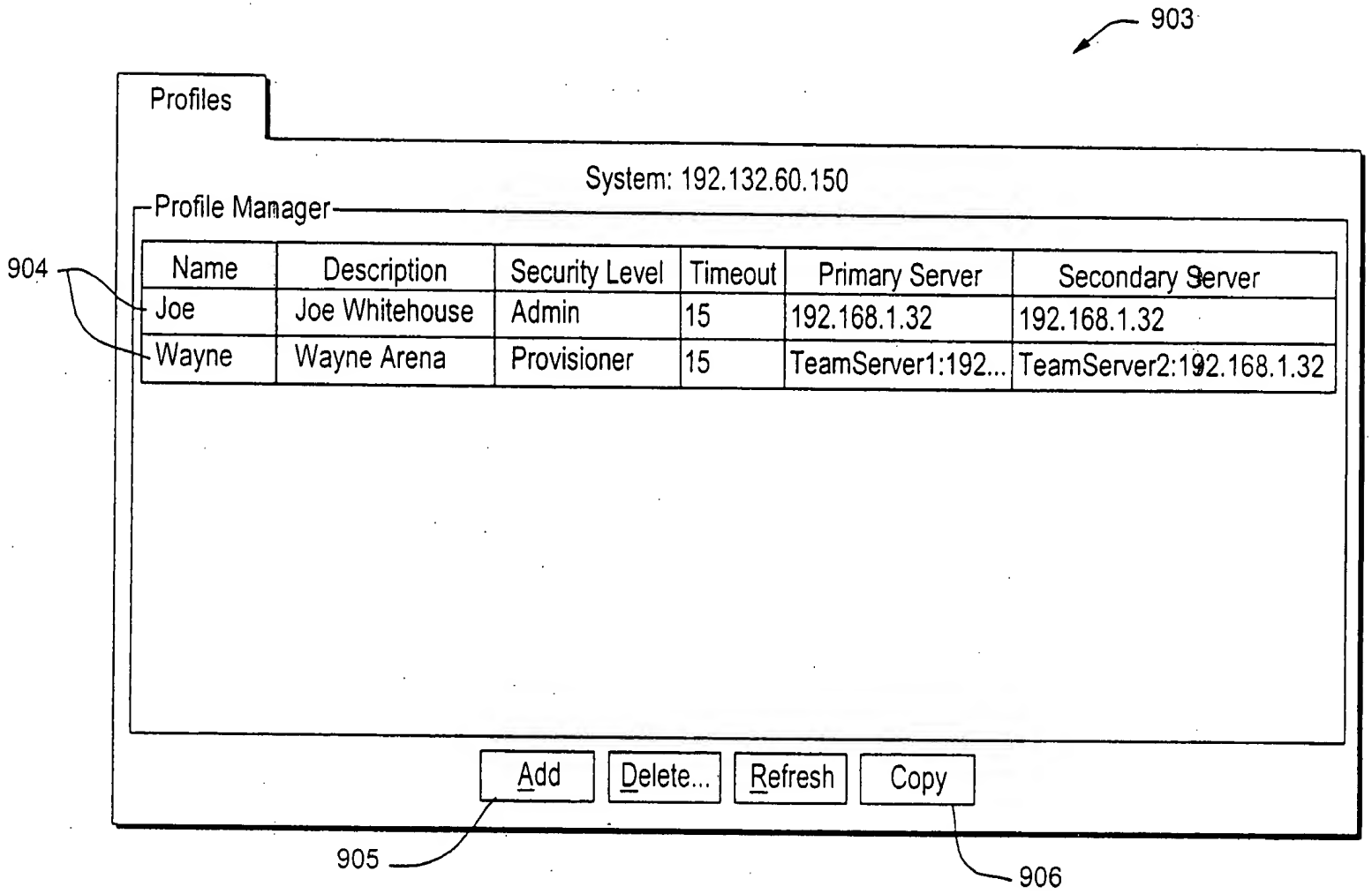

903
Profiles
System: 192.132.60.150
Profile Manager
904
Name
Description
Security Level
Timeout
Primary Server
Secondary Server
Joe
Joe Whitehouse
Admin
15
192.168.1.32
192.168.1.32
Wayne
Wayne Arena
Provisioner
15
TeamServer1:192...
TeamServer2:192.168.1.32
Add
Delete...
Refresh
Copy
905
906

FIG. 11A

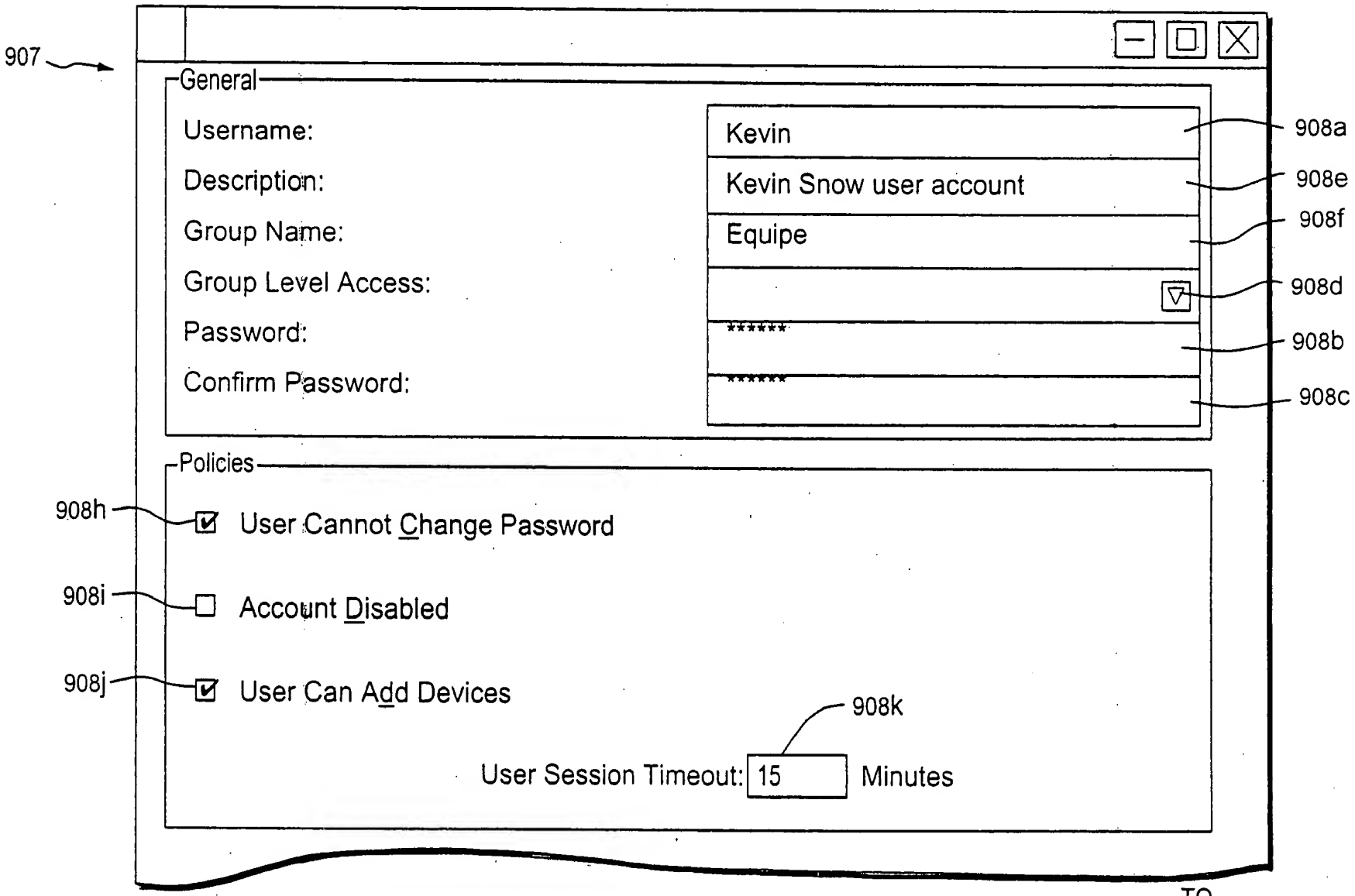

907
General
Username:
Kevin
908a
Description:
Kevin Snow user account
908e
Group Name:
Equipe
908f
Group Level Access:
908d
Password:
******
908b
Confirm Password:
******
908c
Policies
908h
User Cannot Change Password
908i
Account Disabled
908j
User Can Add Devices
908k
User Session Timeout:
15
Minutes
TO
FIG. 11B CONTINUED

FIG. 11B

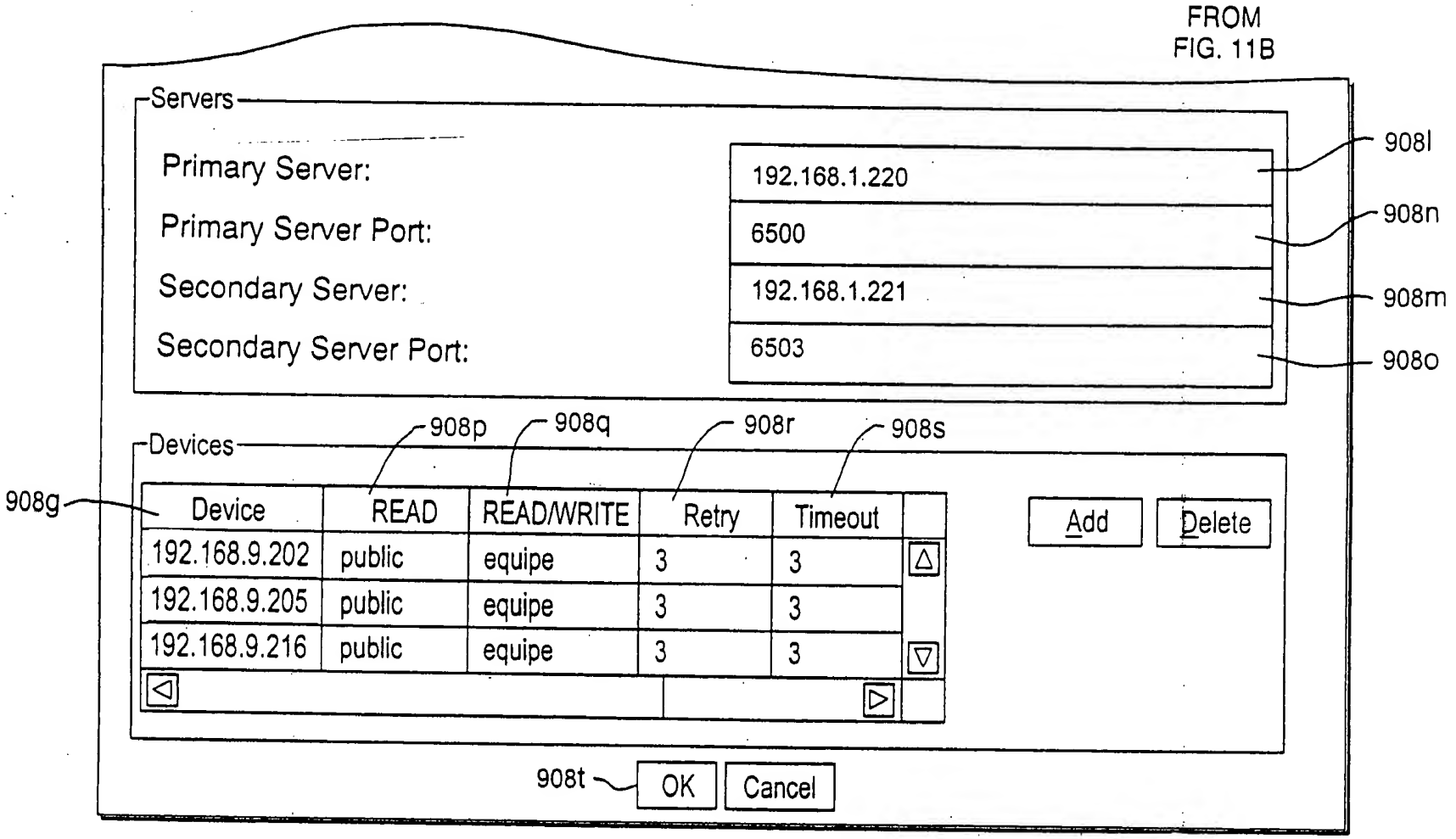


FIG. 11B CONTINUED

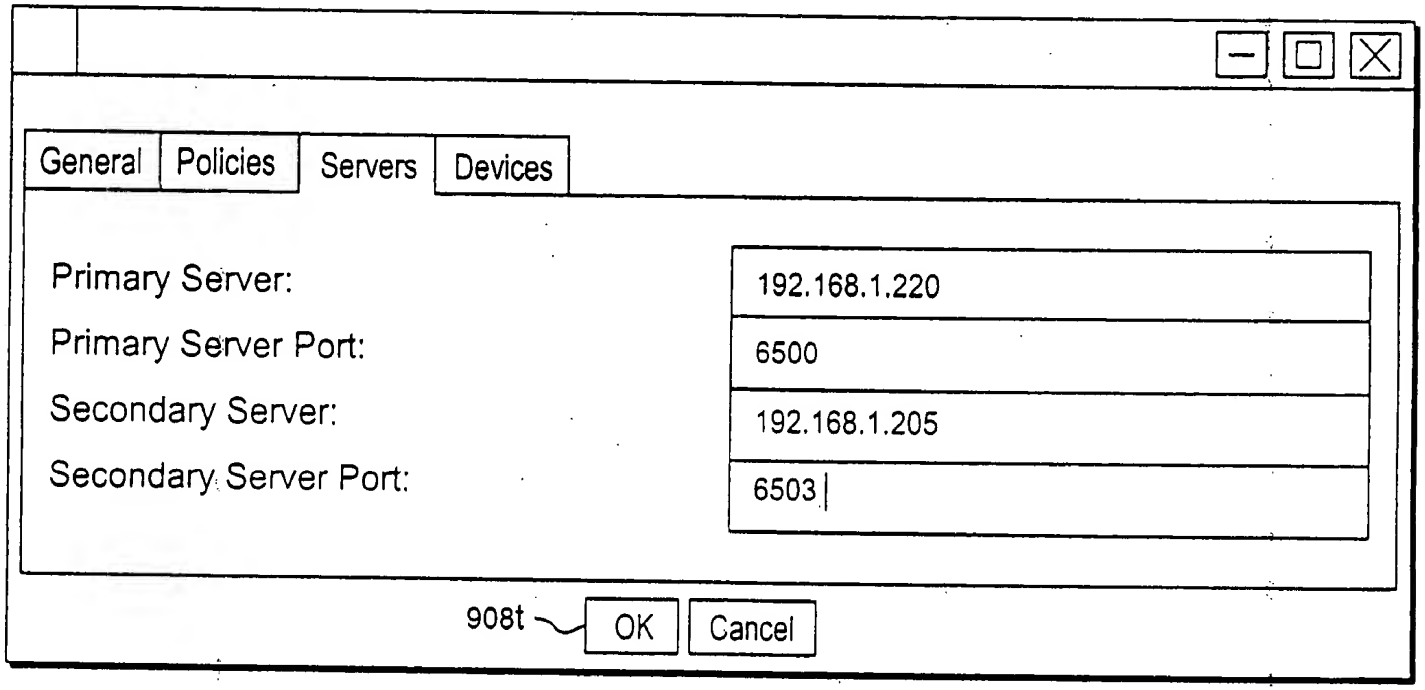

General
Policies
Servers
Devices
Primary Server:
192.168.1.220
Primary Server Port:
6500
Secondary Server:
192.168.1.205
Secondary Server Port:
6503
908t
OK
Cancel

FIG. 11C

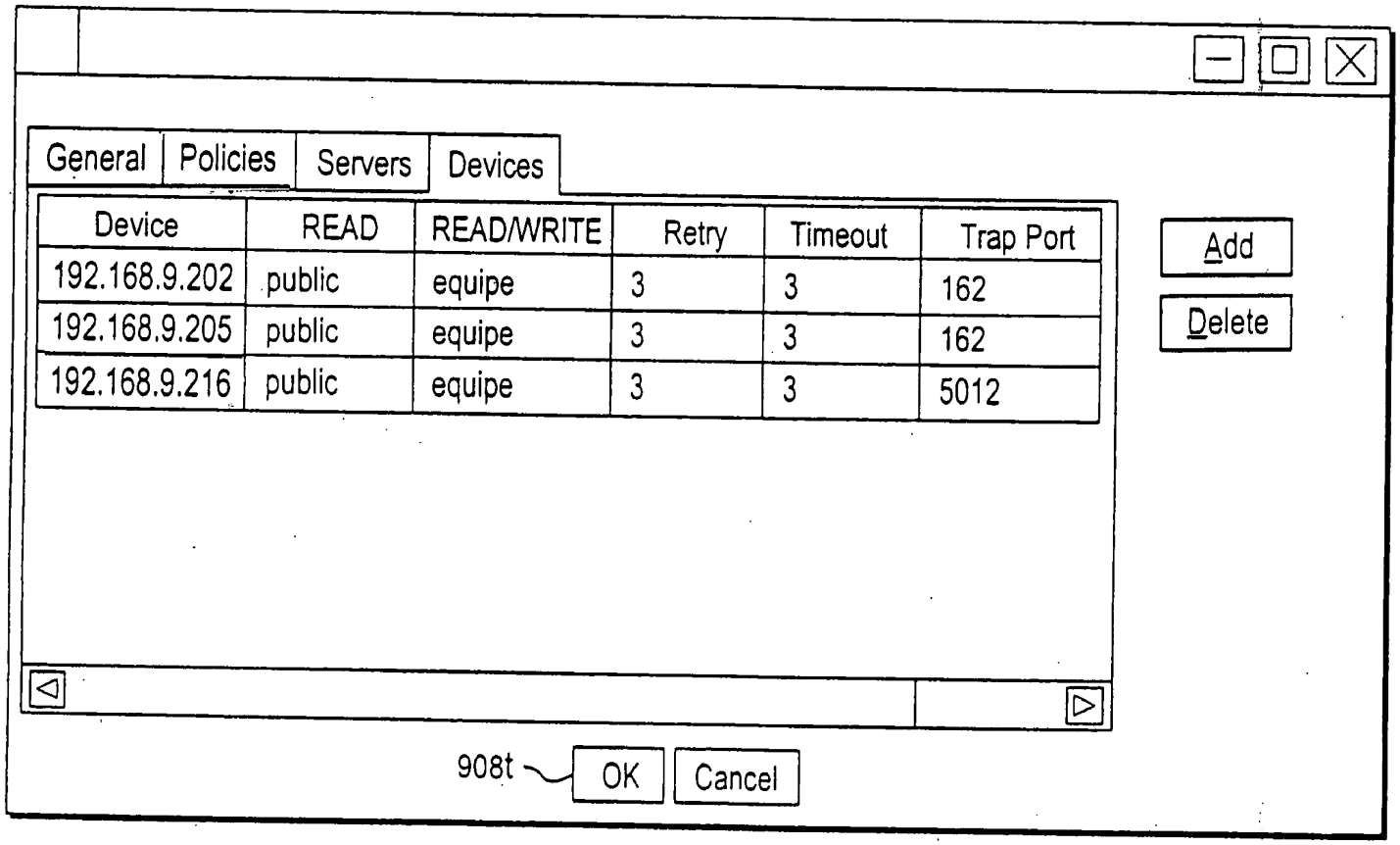

General
Policies
Servers
Devices
Device
READ
READ/WRITE
Retry
Timeout
Trap Port
192.168.9.202
public
equipe
3
3
162
192.168.9.205
public
equipe
3
3
162
192.168.9.216
public
equipe
3
3
5012
Add
Delete
908t
OK
Cancel

FIG. 11D

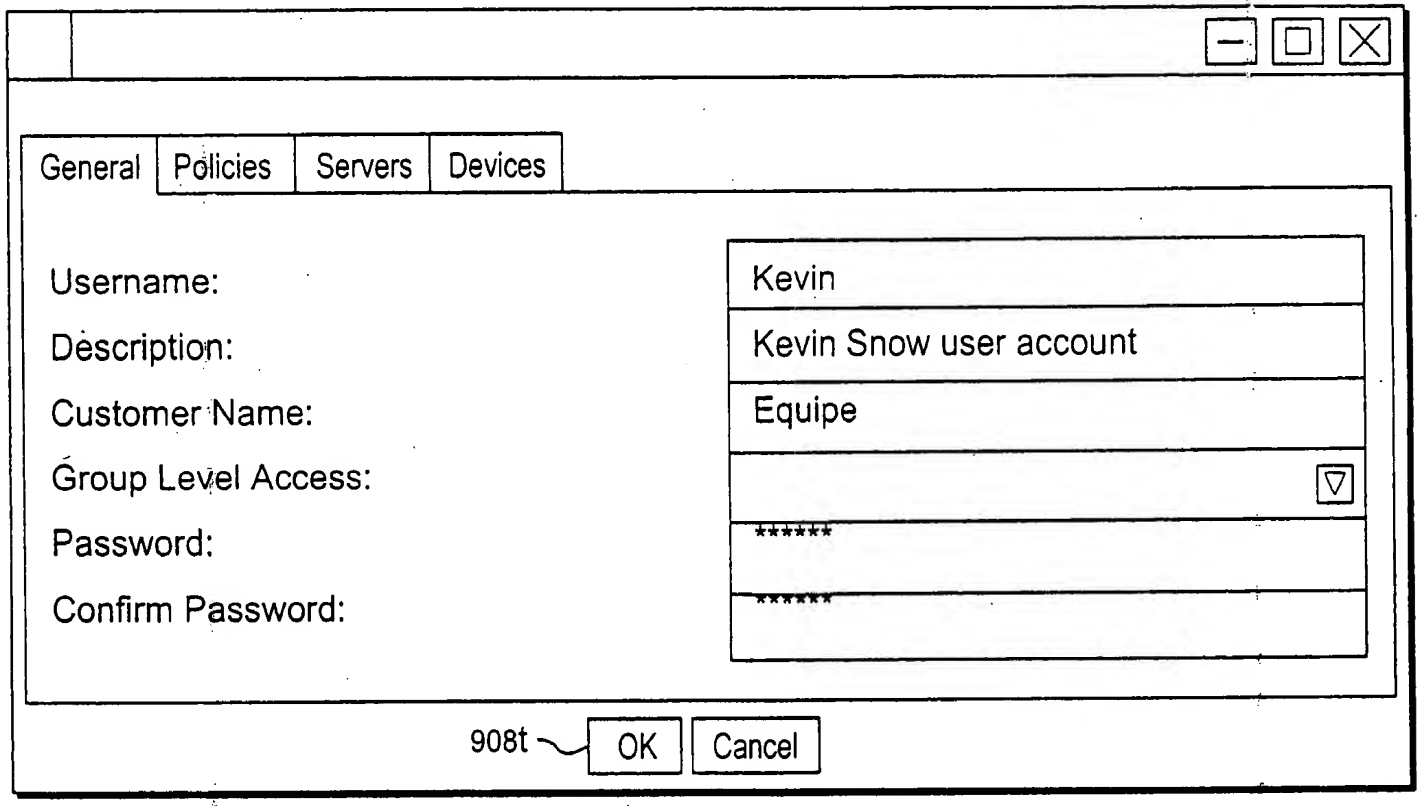

General
Policies
Servers
Devices
Username:
Kevin
Description:
Kevin Snow user account
Customer Name:
Equipe
Group Level Access:
Password:
******
Confirm Password:
******
908t
OK
Cancel

FIG. 11E

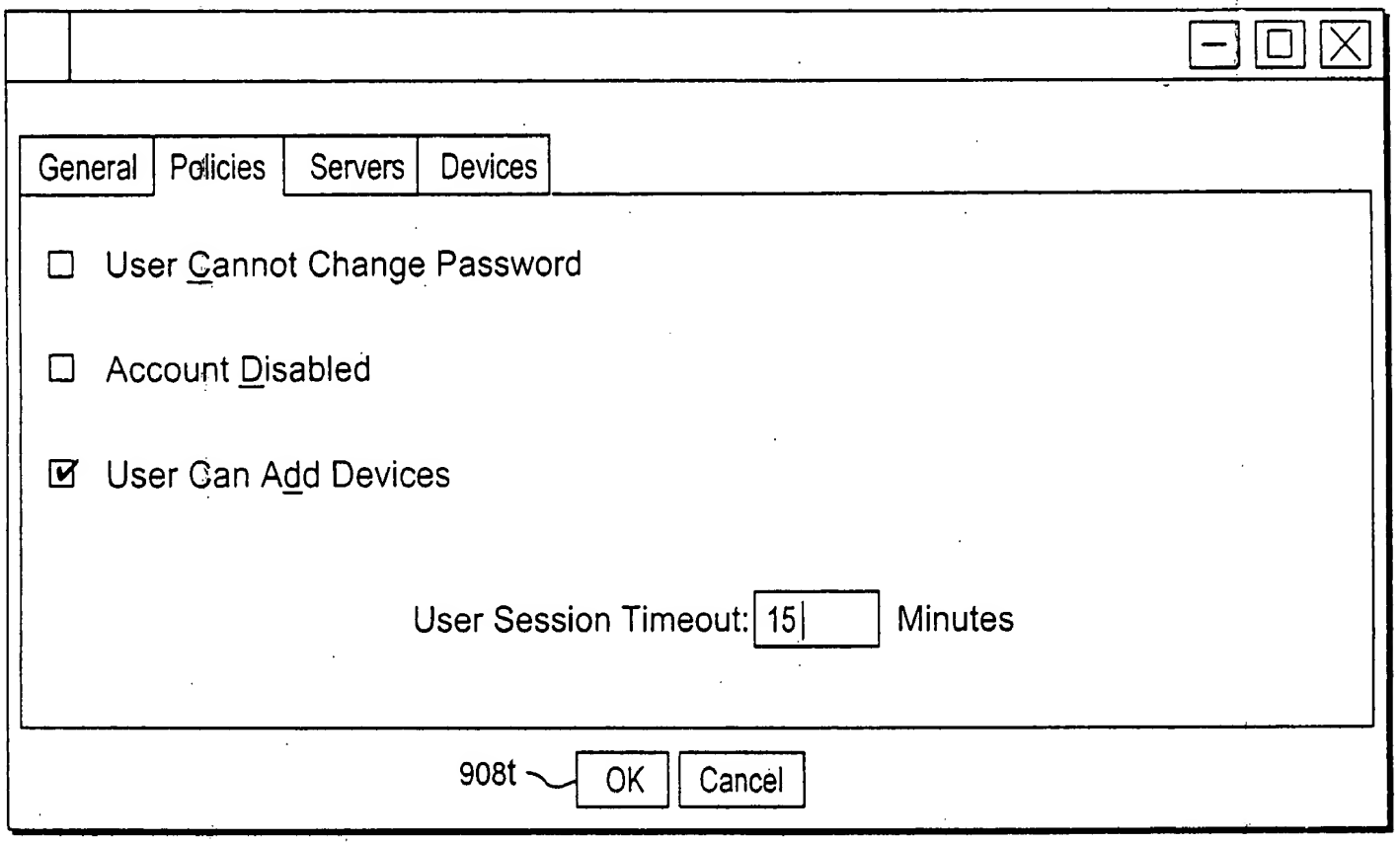

General
Policies
Servers
Devices
User Cannot Change Password
Account Disabled
User Can Add Devices
User Session Timeout: 15 Minutes
908t
OK
Cancel

FIG. 11F

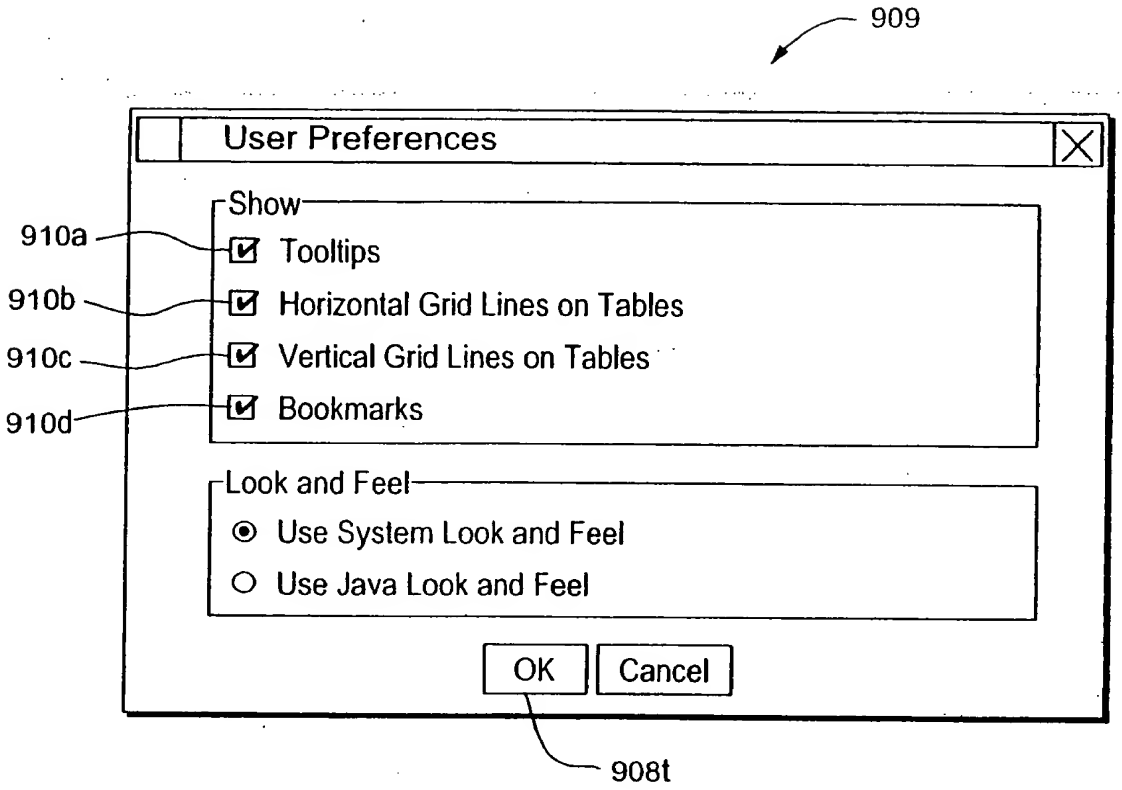

909
User Preferences
Show
910a
Tooltips
910b
Horizontal Grid Lines on Tables
910c
Vertical Grid Lines on Tables
910d
Bookmarks
Look and Feel
Use System Look and Feel
Use Java Look and Feel
OK
Cancel
908t

FIG. 11G

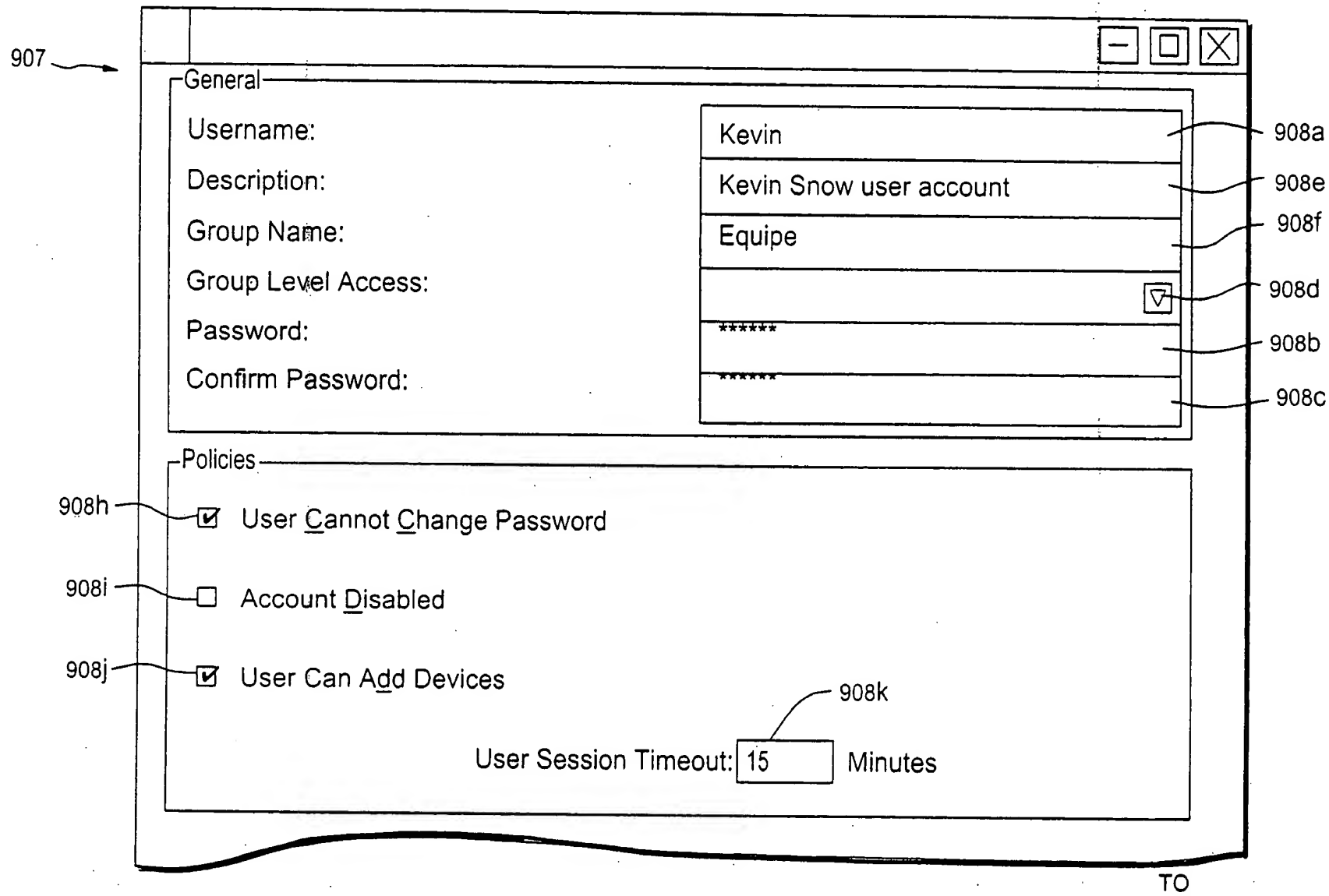


FIG. 11H

FIG. 11H CONTINUED

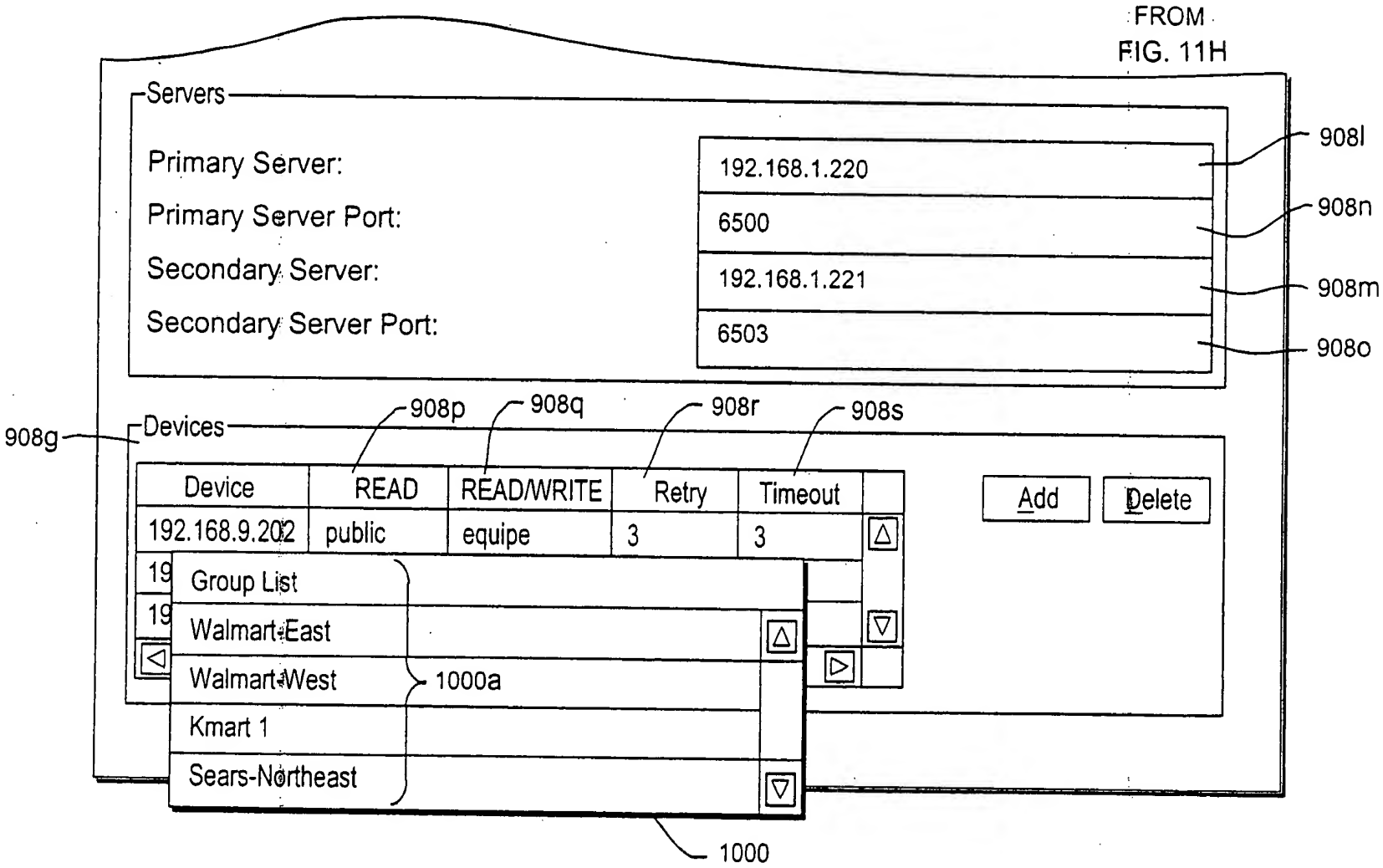


FIG. 11H CONTINUED

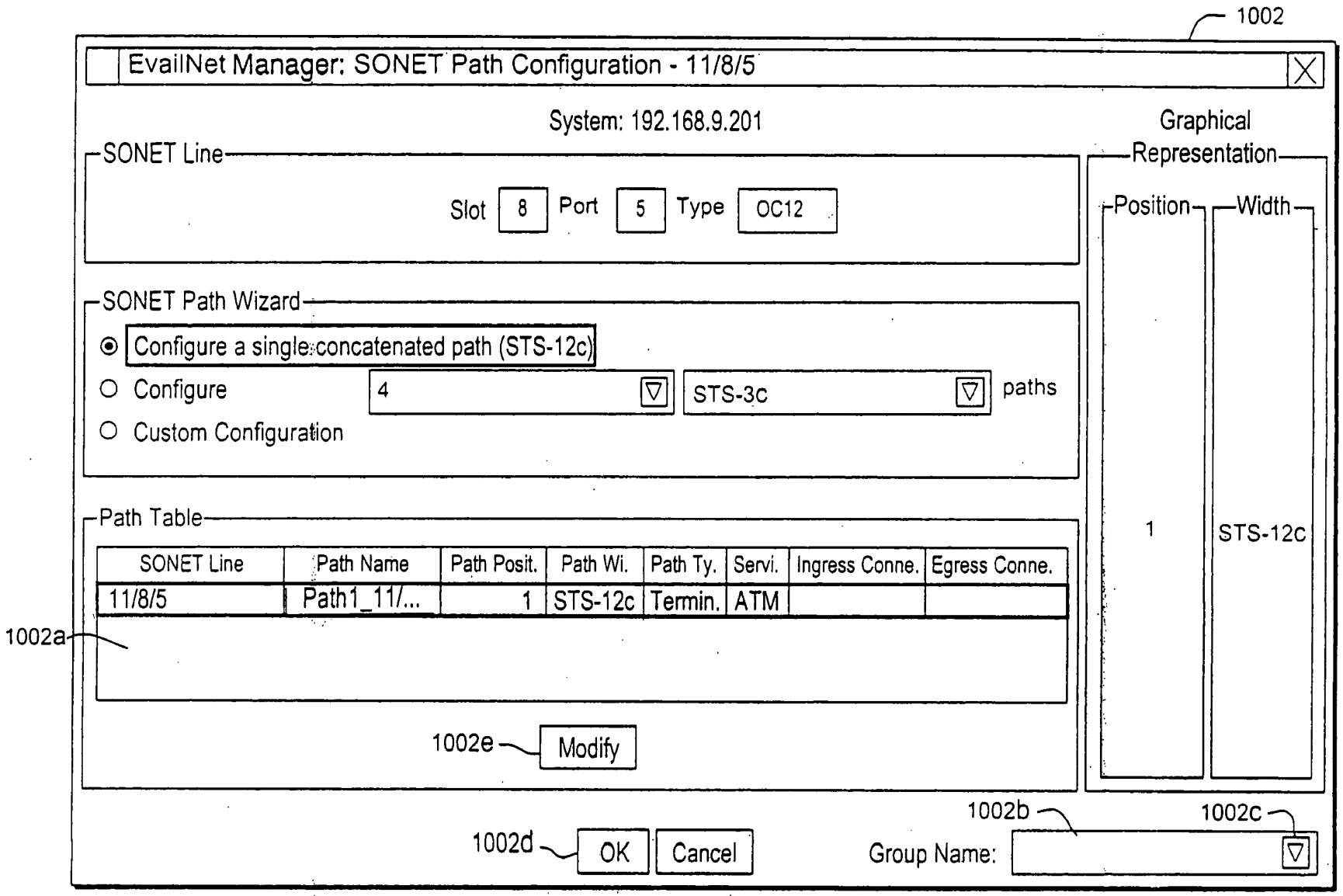

1002
EvailNet Manager: SONET Path Configuration - 11/8/5
System: 192.168.9.201
Graphical Representation
SONET Line
Slot 8 Port 5 Type OC12
Position
Width
SONET Path Wizard
Configure a single concatenated path (STS-12c)
Configure 4 STS-3c paths
Custom Configuration
Path Table
SONET Line | Path Name | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne.
11/8/5 | Path1_11/... | 1 | STS-12c | Termin. | ATM
1
STS-12c
1002a
1002e
Modify
1002b
1002c
1002d
OK
Cancel
Group Name:

FIG. 11I

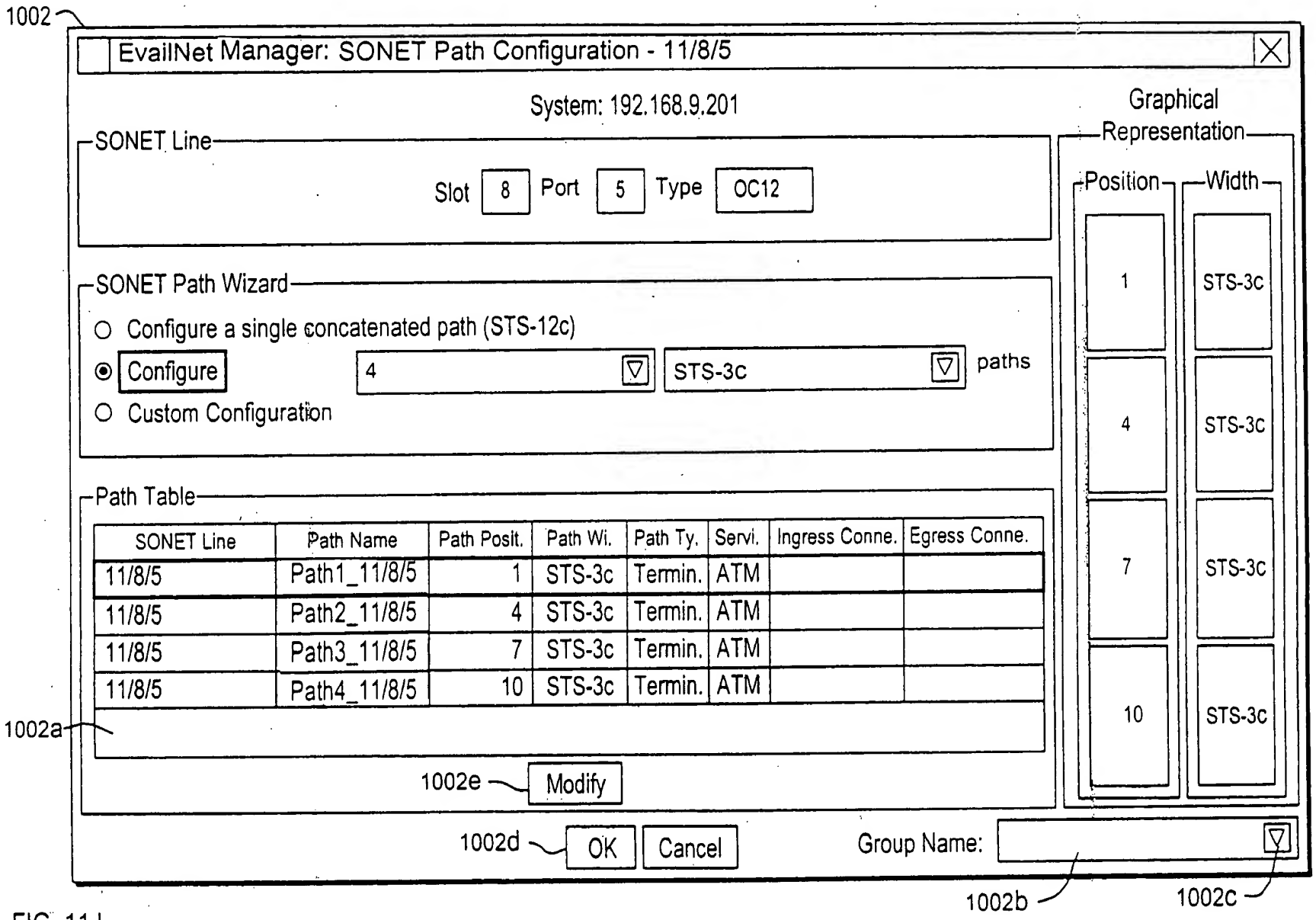

1002
EvailNet Manager: SONET Path Configuration - 11/8/5
System: 192.168.9.201
Graphical Representation
SONET Line
Slot 8 Port 5 Type OC12
Position
Width
1
STS-3c
4
STS-3c
7
STS-3c
10
STS-3c
SONET Path Wizard
Configure a single concatenated path (STS-12c)
Configure
4
STS-3c
paths
Custom Configuration
Path Table
SONET Line | Path Name | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne.
11/8/5 | Path1_11/8/5 | 1 | STS-3c | Termin. | ATM
11/8/5 | Path2_11/8/5 | 4 | STS-3c | Termin. | ATM
11/8/5 | Path3_11/8/5 | 7 | STS-3c | Termin. | ATM
11/8/5 | Path4_11/8/5 | 10 | STS-3c | Termin. | ATM
1002a
1002e
Modify
1002d
OK
Cancel
Group Name:
1002b
1002c

FIG. 11J

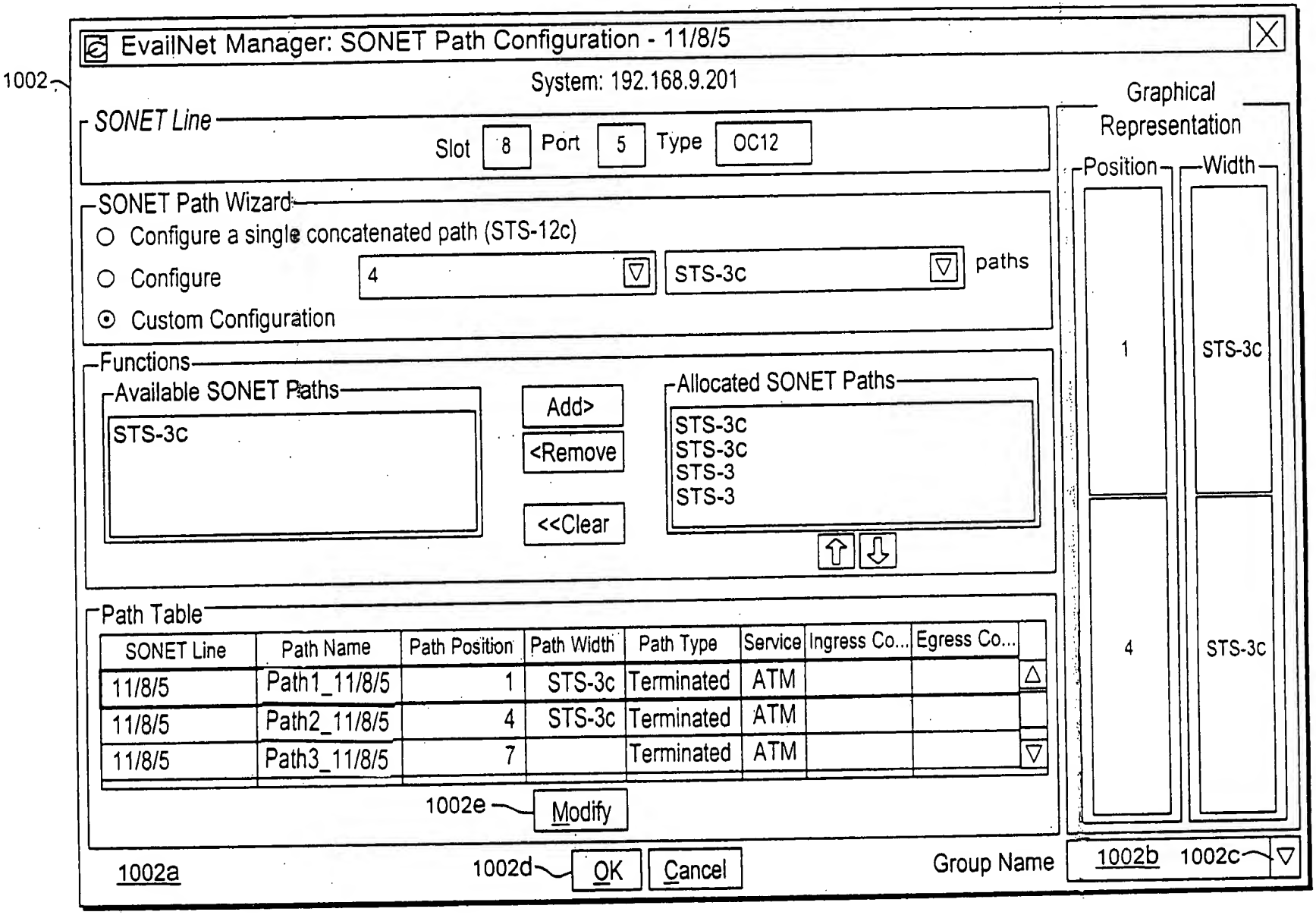

1002
EvailNet Manager: SONET Path Configuration - 11/8/5
System: 192.168.9.201
SONET Line
Slot 8 Port 5 Type OC12
SONET Path Wizard
Configure a single concatenated path (STS-12c)
Configure 4 STS-3c paths
Custom Configuration
Functions
Available SONET Paths
STS-3c
Add>
<Remove
<<Clear
Allocated SONET Paths
STS-3c
STS-3c
STS-3
STS-3
Path Table
SONET Line | Path Name | Path Position | Path Width | Path Type | Service | Ingress Co... | Egress Co...
11/8/5 | Path1_11/8/5 | 1 | STS-3c | Terminated | ATM
11/8/5 | Path2_11/8/5 | 4 | STS-3c | Terminated | ATM
11/8/5 | Path3_11/8/5 | 7 | | Terminated | ATM
1002e
Modify
1002a
1002d
OK
Cancel
Graphical Representation
Position
Width
1
STS-3c
4
STS-3c
Group Name
1002b
1002c

FIG. 11K

MANAGED RESOURCE GROUP TABLE 1008

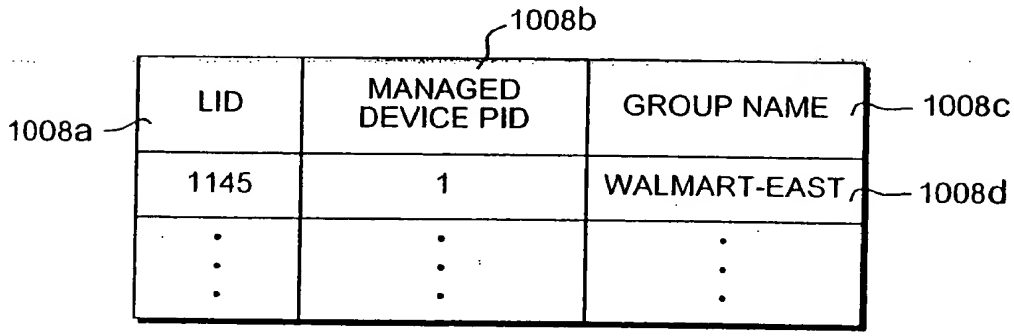


FIG. 11L

MANAGED RESOURCE TABLE 1007

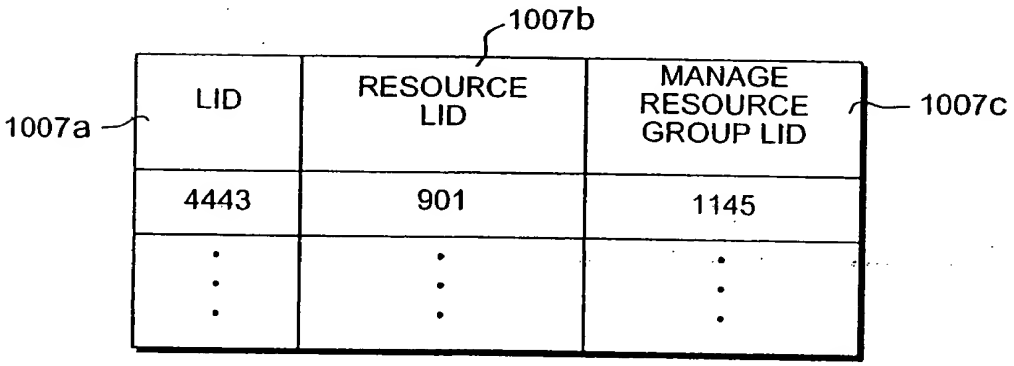


FIG. 11M

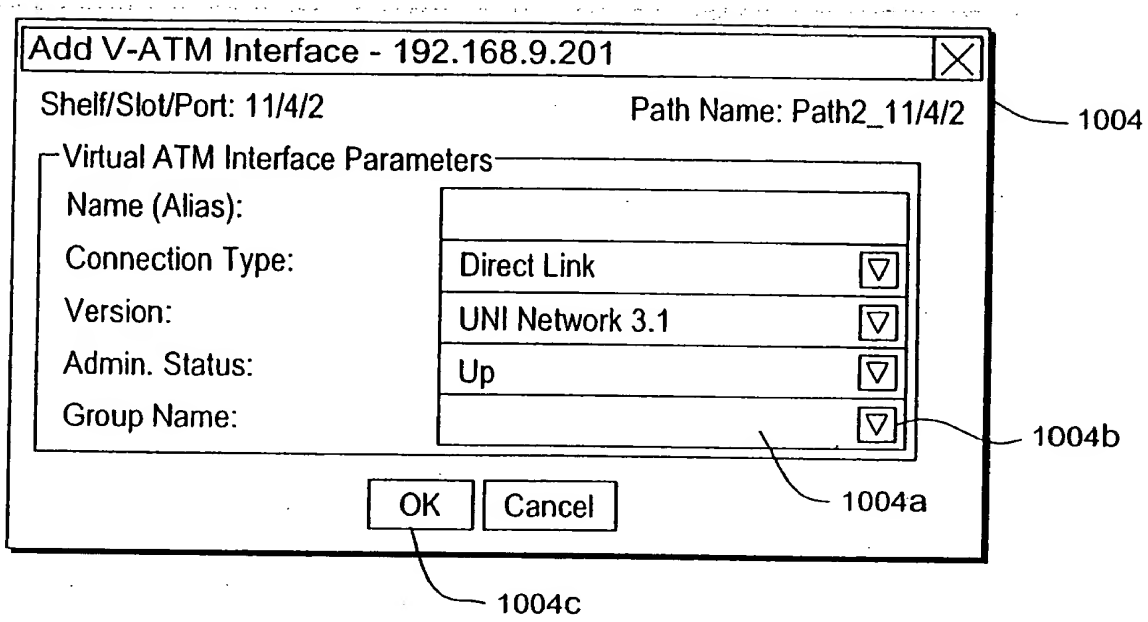

Add V-ATM Interface - 192.168.9.201
Shelf/Slot/Port: 11/4/2
Path Name: Path2_11/4/2
Virtual ATM Interface Parameters
Name (Alias):
Connection Type:
Direct Link
Version:
UNI Network 3.1
Admin. Status:
Up
Group Name:
OK
Cancel
1004
1004b
1004a
1004c

FIG. 11N

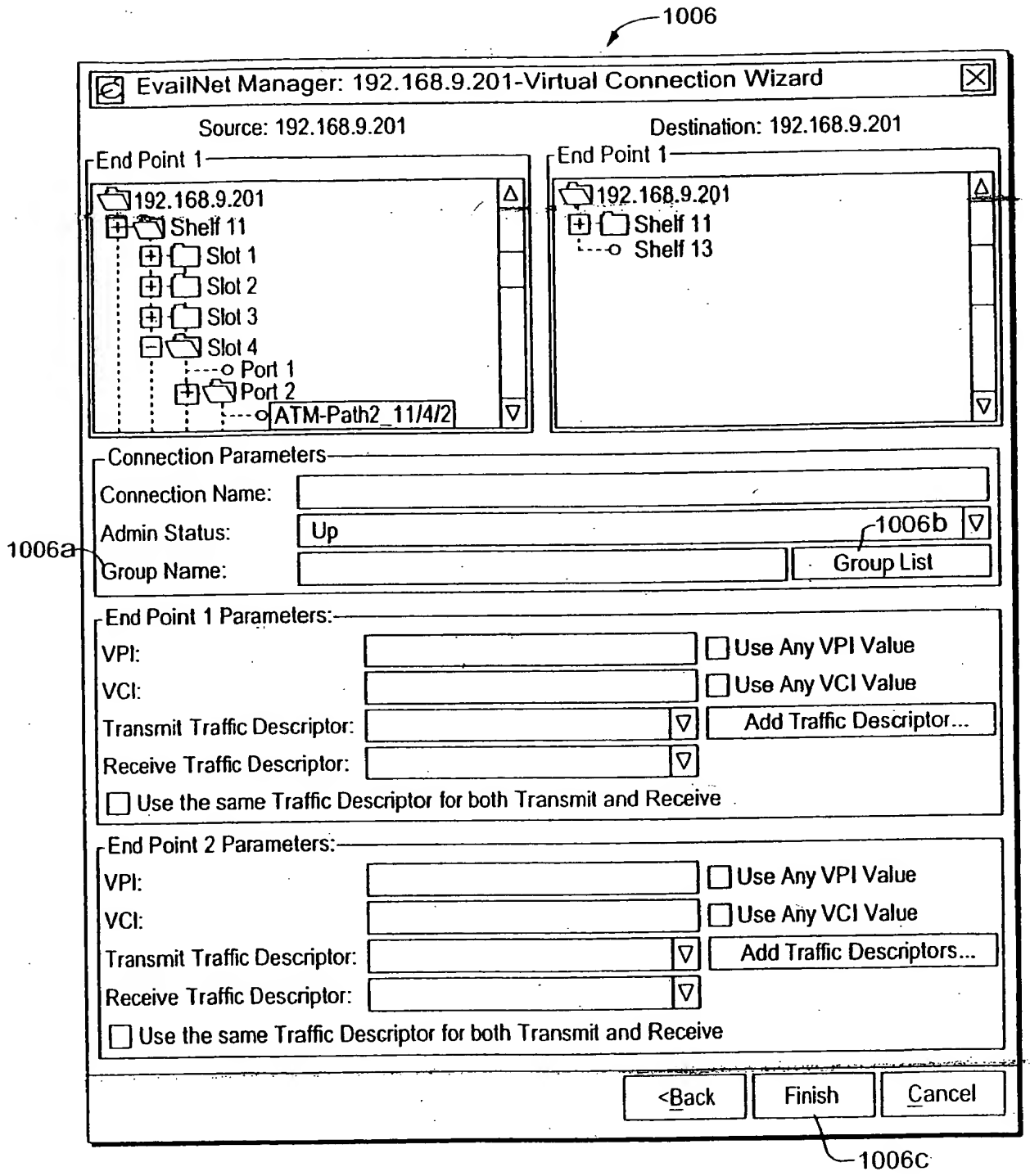

1006
EvailNet Manager: 192.168.9.201-Virtual Connection Wizard
Source: 192.168.9.201
Destination: 192.168.9.201
End Point 1
192.168.9.201
Shelf 11
Slot 1
Slot 2
Slot 3
Slot 4
Port 1
Port 2
ATM-Path2_11/4/2
End Point 1
192.168.9.201
Shelf 11
Shelf 13
Connection Parameters
Connection Name:
Admin Status:
Up
1006b
1006a
Group Name:
Group List
End Point 1 Parameters:
VPI:
Use Any VPI Value
VCI:
Use Any VCI Value
Transmit Traffic Descriptor:
Add Traffic Descriptor...
Receive Traffic Descriptor:
Use the same Traffic Descriptor for both Transmit and Receive
End Point 2 Parameters:
VPI:
Use Any VPI Value
VCI:
Use Any VCI Value
Transmit Traffic Descriptor:
Add Traffic Descriptors...
Receive Traffic Descriptor:
Use the same Traffic Descriptor for both Transmit and Receive
<Back
Finish
Cancel
1006c

FIG. 11O

USER TABLE 1010

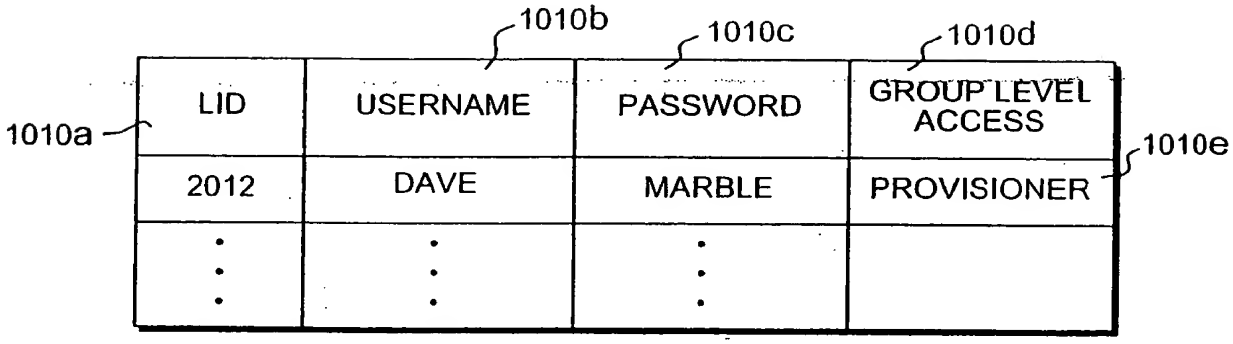


FIG. 11P

USER MANAGED DEVICE TABLE 1012

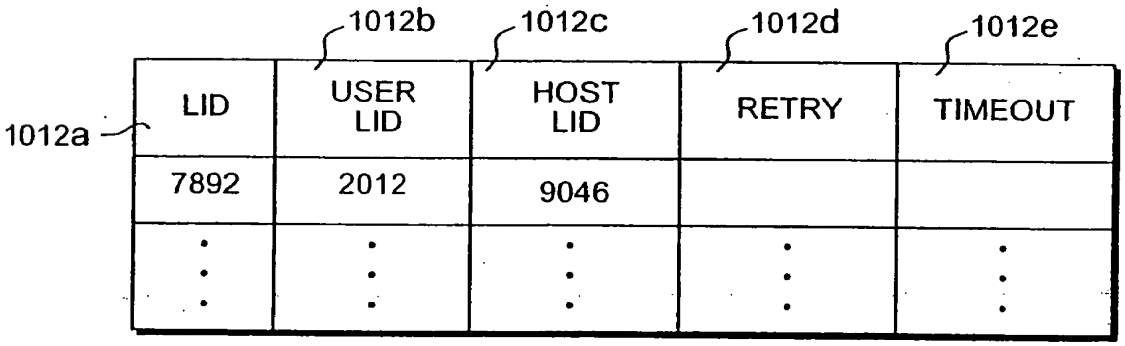


FIG. 11Q

ADMINISTRATION MANAGED DEVICE TABLE 1014

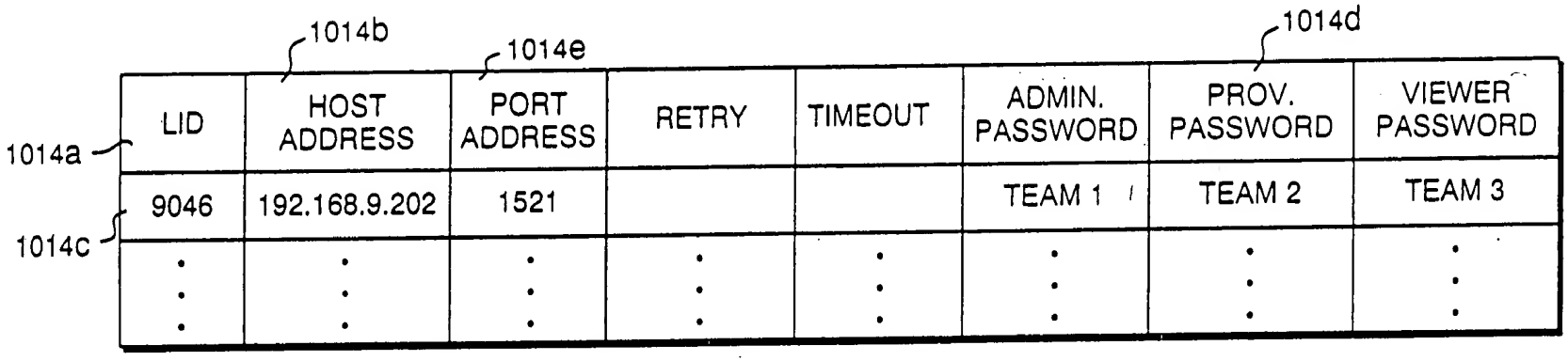


FIG. 11R

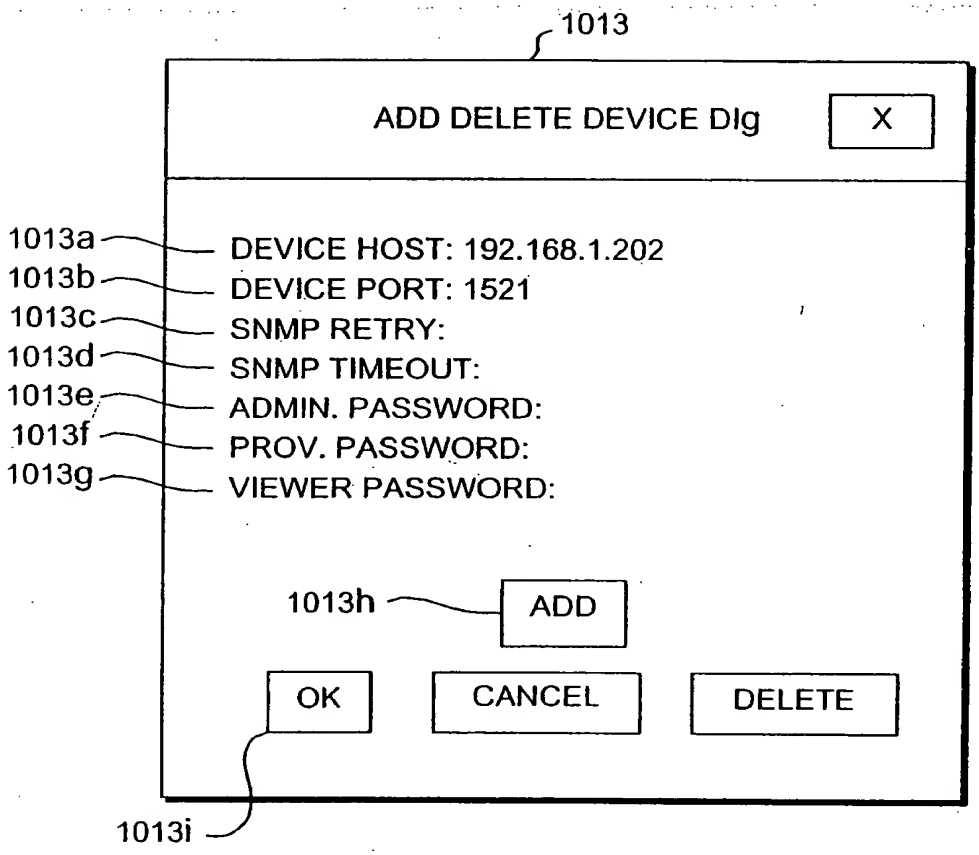

1013
ADD DELETE DEVICE Dlg
X
1013a
DEVICE HOST: 192.168.1.202
1013b
DEVICE PORT: 1521
1013c
SNMP RETRY:
1013d
SNMP TIMEOUT:
1013e
ADMIN. PASSWORD:
1013f
PROV. PASSWORD:
1013g
VIEWER PASSWORD:
1013h
ADD
OK
CANCEL
DELETE
1013i

FIG. 11S

USER RESOURCE GROUP MAP TABLE 1016

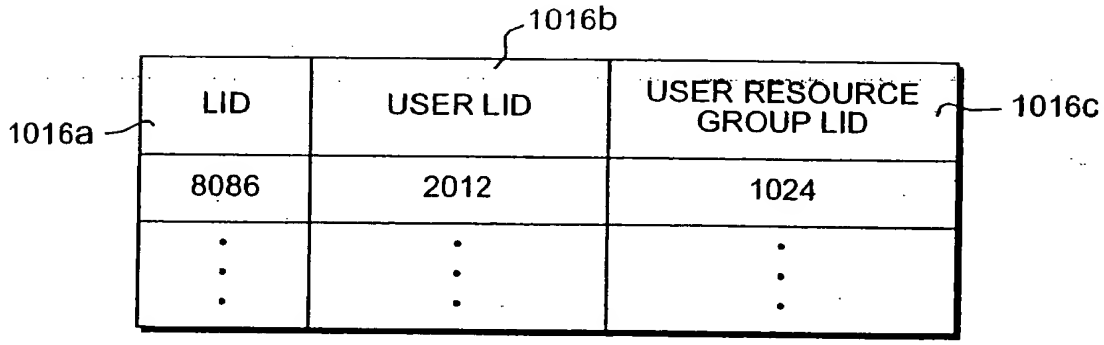


FIG. 11T

USER RESOURCE GROUP TABLE 1018

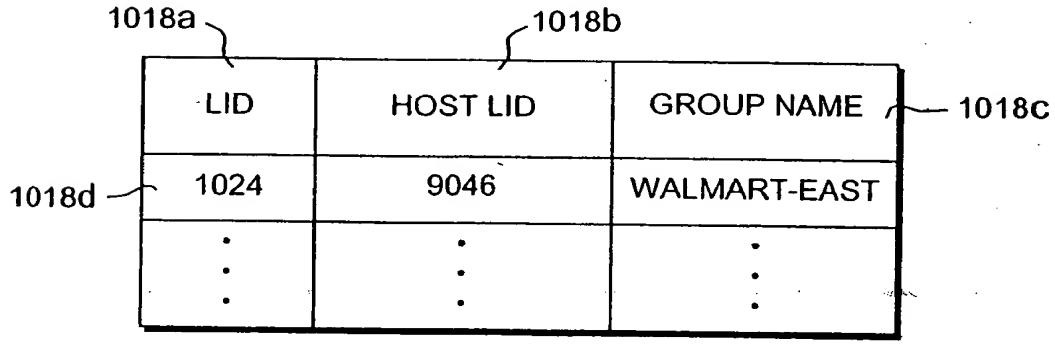


FIG. 11U

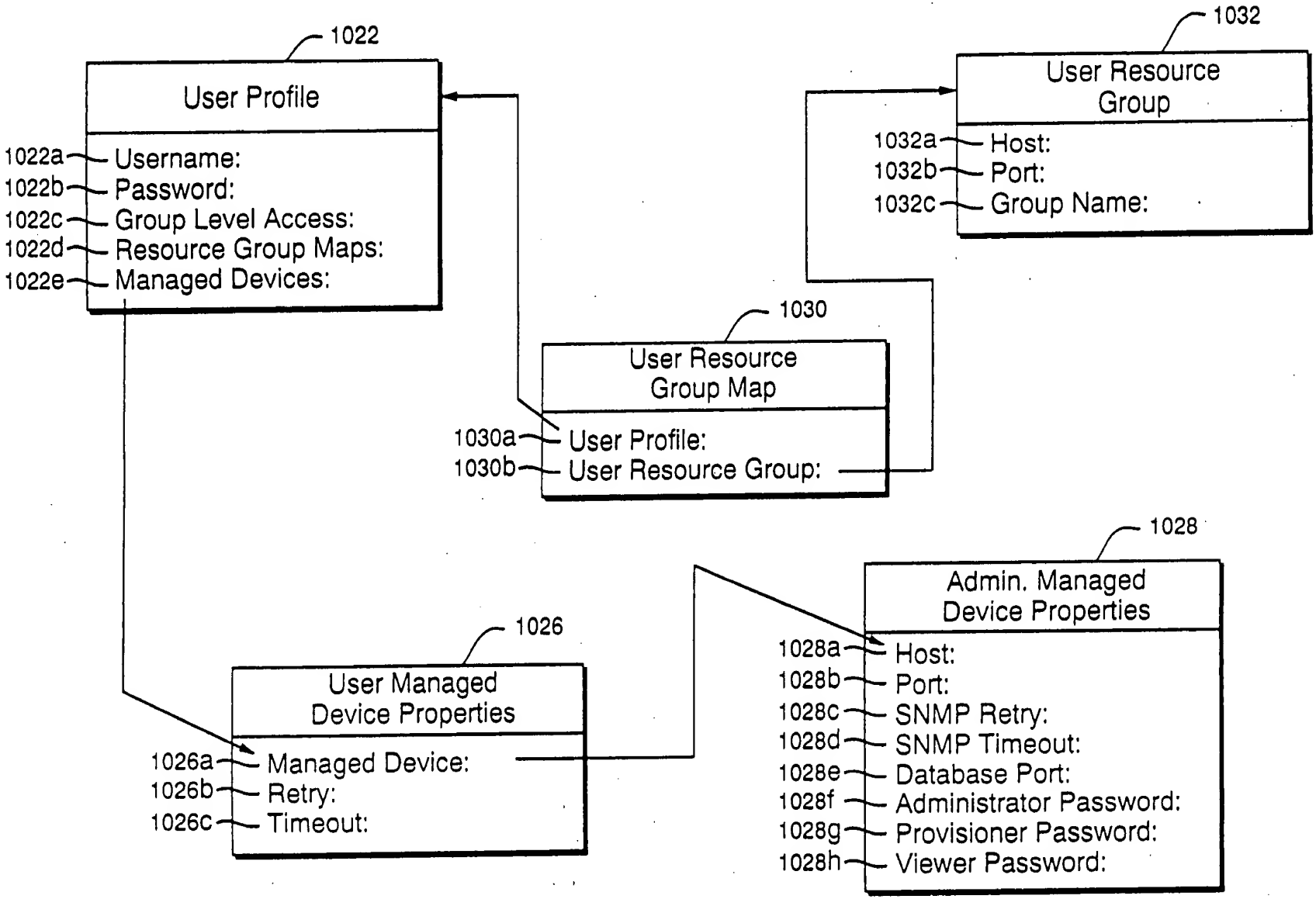

1022
User Profile
1022a Username:
1022b Password:
1022c Group Level Access:
1022d Resource Group Maps:
1022e Managed Devices:
1032
User Resource Group
1032a Host:
1032b Port:
1032c Group Name:
1030
User Resource Group Map
1030a User Profile:
1030b User Resource Group:
1028
Admin. Managed Device Properties
1028a Host:
1028b Port:
1028c SNMP Retry:
1028d SNMP Timeout:
1028e Database Port:
1028f Administrator Password:
1028g Provisioner Password:
1028h Viewer Password:
1026
User Managed Device Properties
1026a Managed Device:
1026b Retry:
1026c Timeout:

FIG. 11V

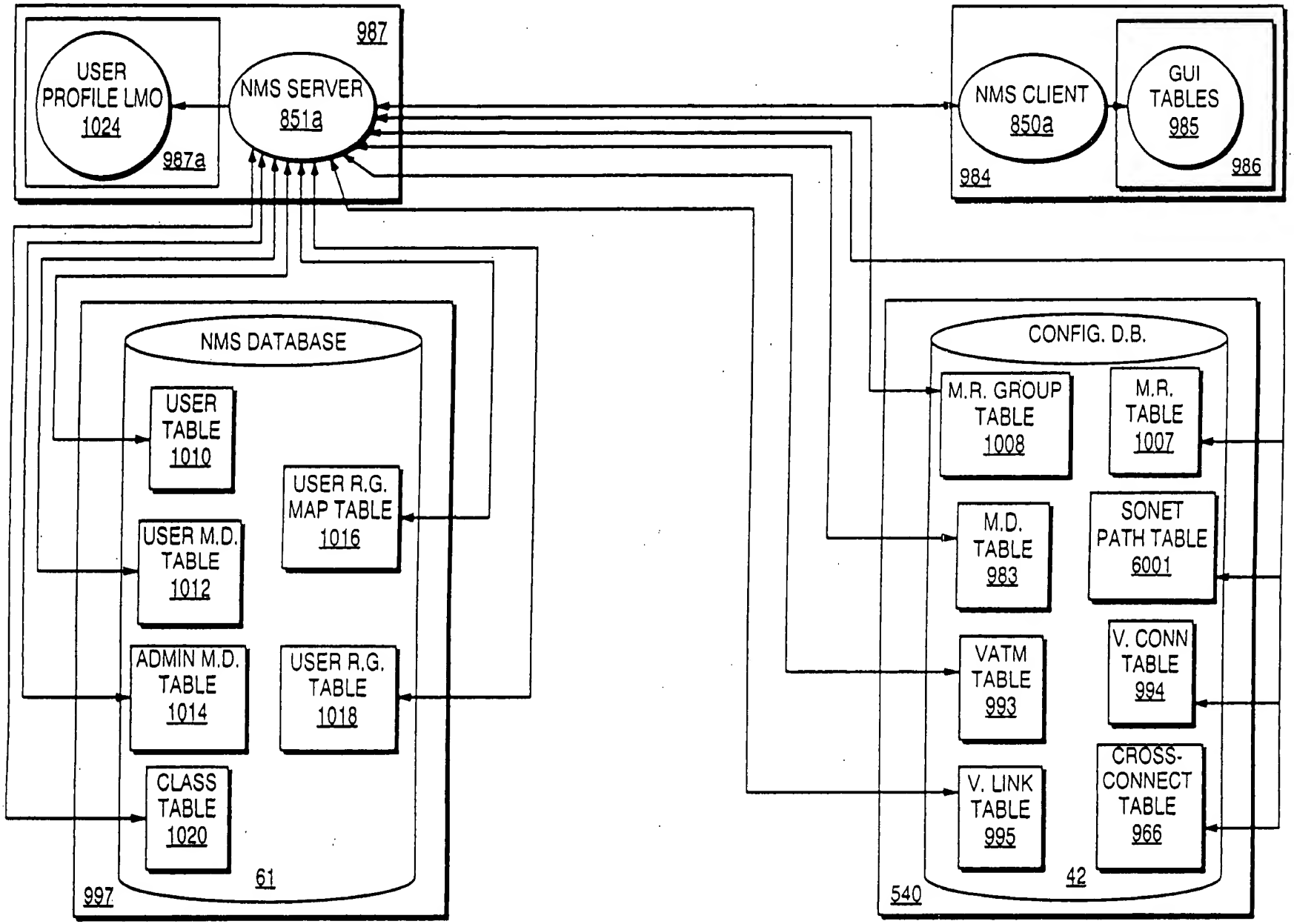

987
USER PROFILE LMO 1024
987a
NMS SERVER 851a
NMS CLIENT 850a
984
GUI TABLES 985
986
NMS DATABASE
USER TABLE 1010
USER R.G. MAP TABLE 1016
USER M.D. TABLE 1012
ADMIN M.D. TABLE 1014
USER R.G. TABLE 1018
CLASS TABLE 1020
61
997
CONFIG. D.B.
M.R. GROUP TABLE 1008
M.R. TABLE 1007
M.D. TABLE 983
SONET PATH TABLE 6001
VATM TABLE 993
V. CONN TABLE 994
V. LINK TABLE 995
CROSS-CONNECT TABLE 966
42
540

FIG. 11W

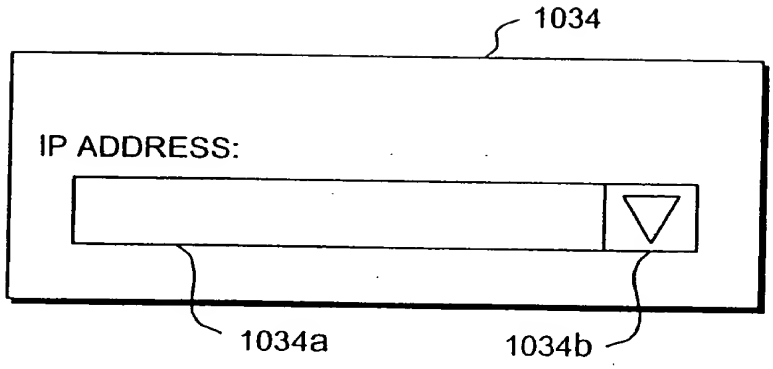


FIG. 11X

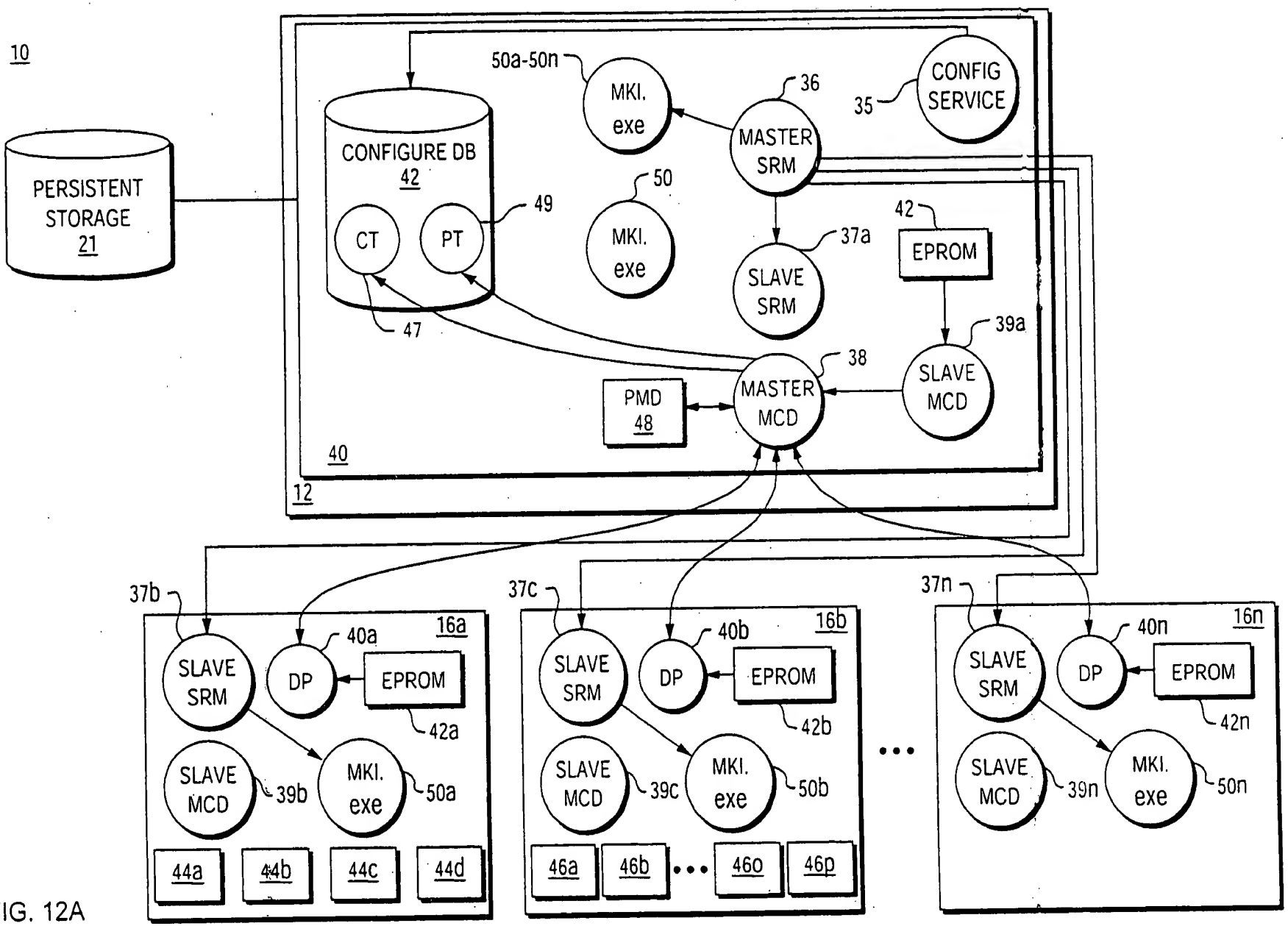

10
PERSISTENT STORAGE 21
CONFIGURE DB 42
CT
PT
49
47
50a-50n
MKI. exe
50
MKI. exe
36
MASTER SRM
35
CONFIG SERVICE
37a
SLAVE SRM
42
EPROM
39a
SLAVE MCD
38
MASTER MCD
PMD 48
40
12
37b
SLAVE SRM
DP
40a
16a
EPROM
42a
SLAVE MCD
39b
MKI. exe
50a
44a
44b
44c
44d
37c
SLAVE SRM
DP
40b
16b
EPROM
42b
SLAVE MCD
39c
MKI. exe
50b
46a
46b
46o
46p
37n
SLAVE SRM
DP
40n
16n
EPROM
42n
SLAVE MCD
39n
MKI. exe
50n

FIG. 12A

CARD TABLE 47

	PID	CWD TYPE	VERSION NO.	SLOT NO.	. . .
16a	500	0XF002	3	1	
16b	501	0XF002	4	2	
	. . .	. . .	. . .	. . .	. . .
16e	505	0X6002	1	5	
	. . .	. . .	. . .	. . .	. . .
16n	513	0XF002	1	12	
	. . .	. . .	. . .	. . .	. . .

FIG. 12B

PORT TABLE 49

	PID	PORT TYPE	VERSION NO.	SLOT NO.	...
44a	1500	00620	1	1	
44b	1501	00620	1	1	
44c	1502	00620	1	1	
44d	1503	00620	1	1	
44a	1504	00820			
46a	⋮	⋮	⋮	⋮	⋮
	1600	OO620	1	8	
	⋮	⋮	⋮	⋮	⋮

FIG. 12C

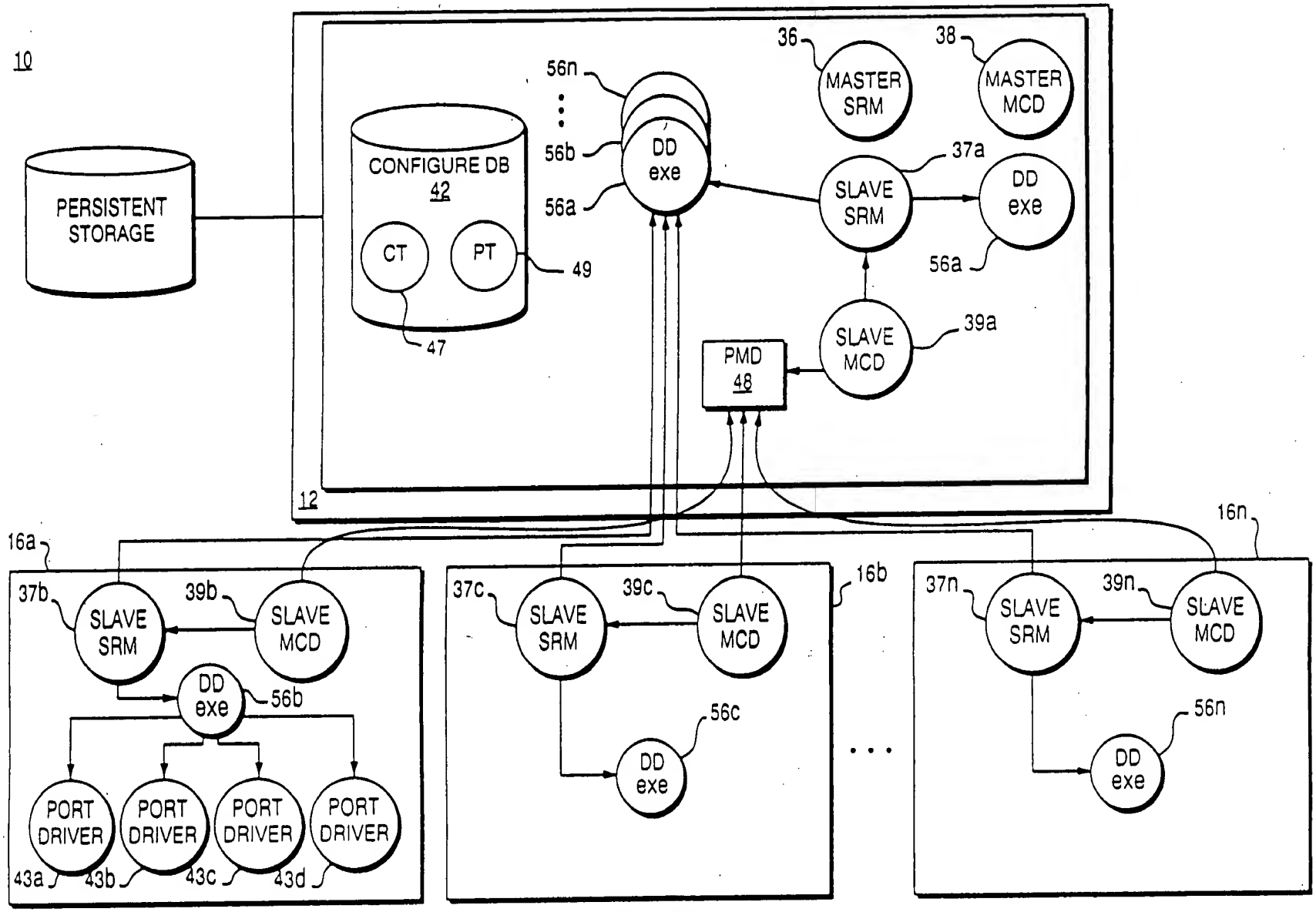

10
PERSISTENT STORAGE
CONFIGURE DB
42
CT
PT
49
47
56n
56b
56a
DD exe
36
MASTER SRM
38
MASTER MCD
37a
SLAVE SRM
DD exe
56a
39a
SLAVE MCD
PMD
48
12
16a
37b
SLAVE SRM
39b
SLAVE MCD
DD exe
56b
PORT DRIVER
PORT DRIVER
PORT DRIVER
PORT DRIVER
43a
43b
43c
43d
16b
37c
SLAVE SRM
39c
SLAVE MCD
56c
DD exe
16n
37n
SLAVE SRM
39n
SLAVE MCD
56n
DD exe

FIG. 13A

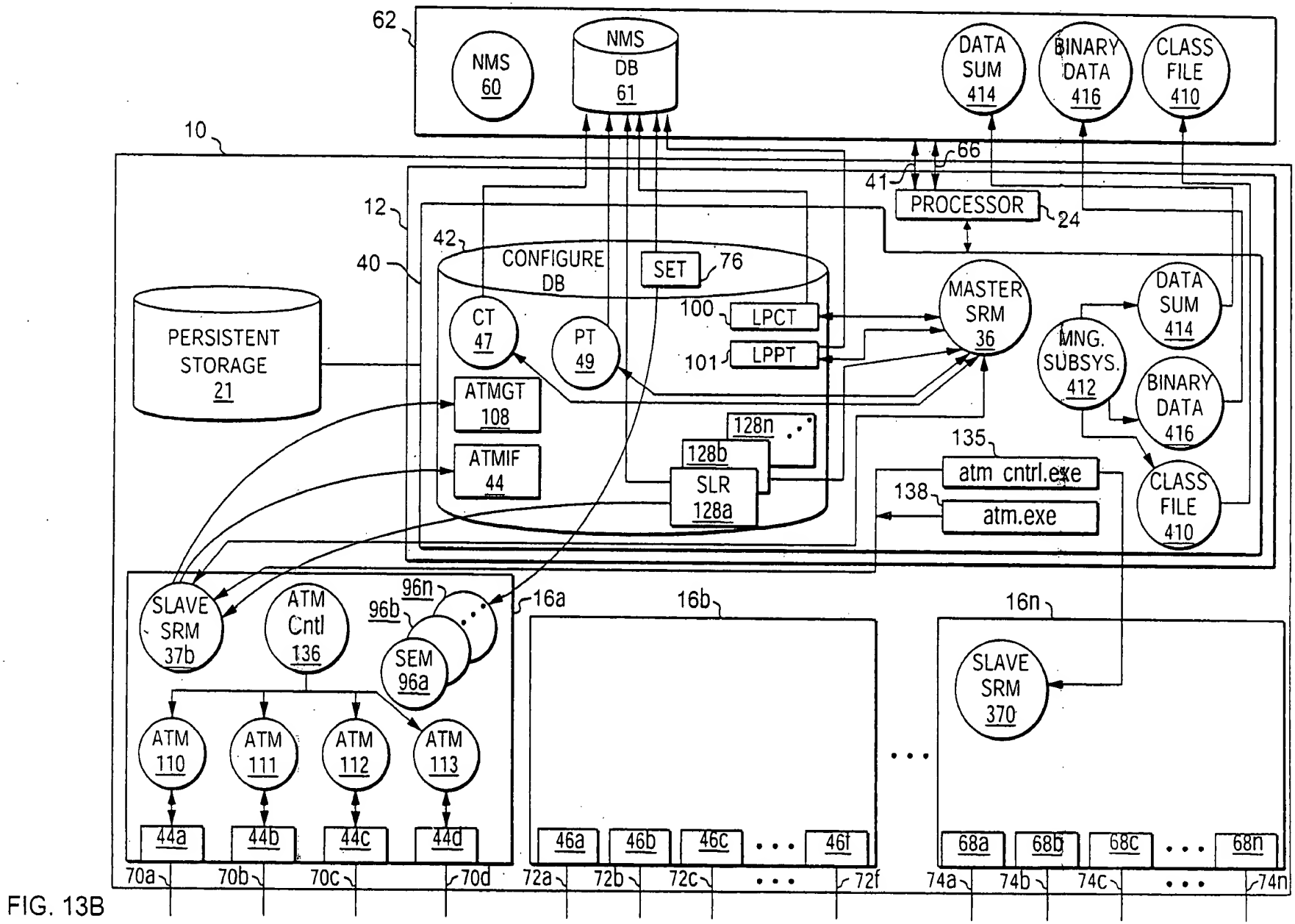

62
NMS 60
NMS DB 61
DATA SUM 414
BINARY DATA 416
CLASS FILE 410
10
66
41
PROCESSOR 24
12
42
40
CONFIGURE DB
SET 76
PERSISTENT STORAGE 21
CT 47
PT 49
100
LPCT
101
LPPT
MASTER SRM 36
MNG. SUBSYS. 412
DATA SUM 414
BINARY DATA 416
CLASS FILE 410
ATMGT 108
ATMIF 44
128n
128b
SLR 128a
135
atm cntrl.exe
138
atm.exe
SLAVE SRM 37b
ATM Cntl 136
96n
96b
SEM 96a
16a
16b
16n
SLAVE SRM 370
ATM 110
ATM 111
ATM 112
ATM 113
44a
44b
44c
44d
46a
46b
46c
46f
68a
68b
68c
68n
70a
70b
70c
70d
72a
72b
72c
72f
74a
74b
74c
74n

FIG. 13B

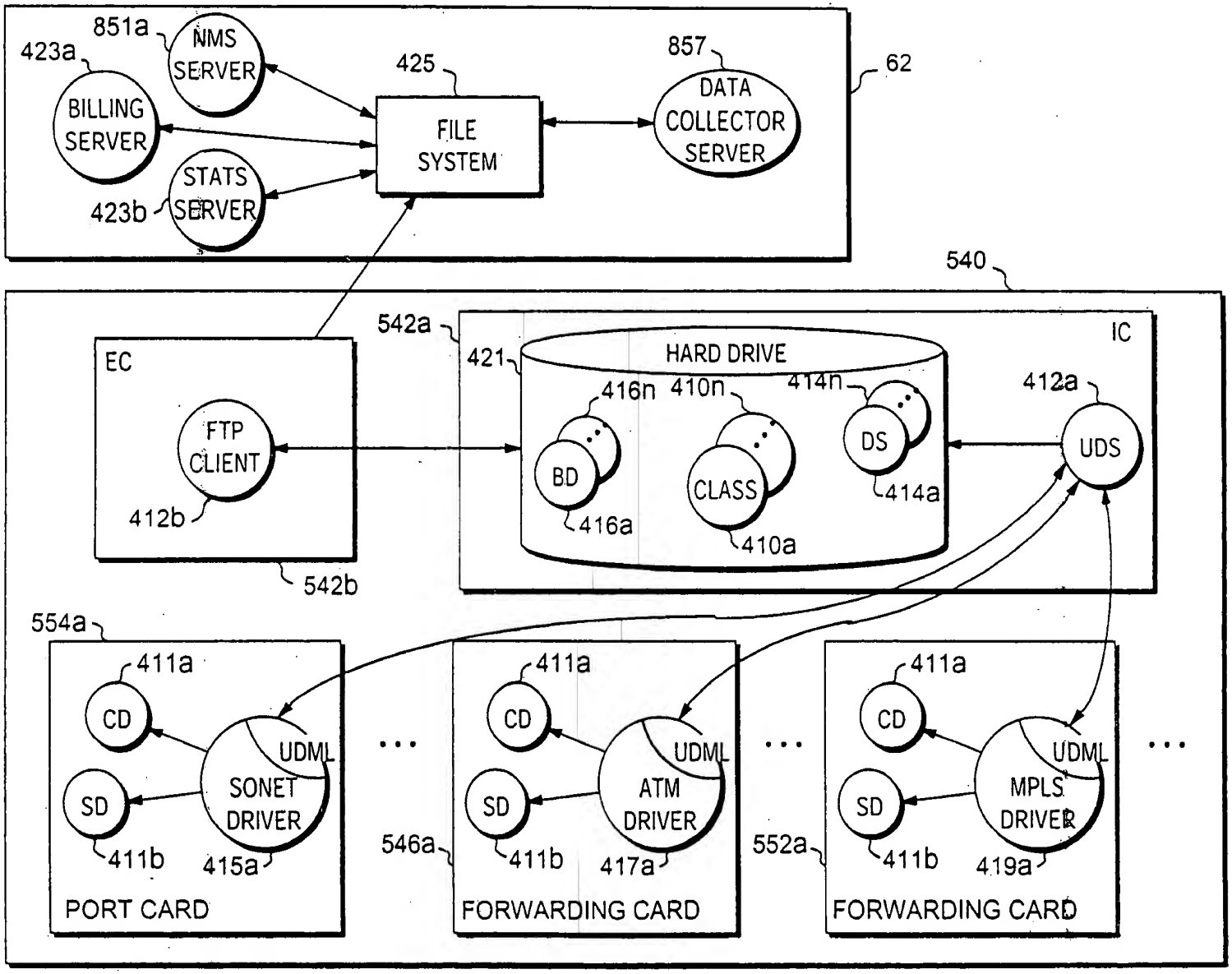

851a
NMS SERVER
423a
BILLING SERVER
STATS SERVER
423b
425
FILE SYSTEM
857
DATA COLLECTOR SERVER
62
540
542a
IC
EC
FTP CLIENT
412b
542b
421
HARD DRIVE
416n
410n
414n
BD
416a
CLASS
410a
DS
414a
412a
UDS
554a
411a
CD
SD
411b
UDML
SONET DRIVER
415a
PORT CARD
546a
ATM DRIVER
417a
FORWARDING CARD
552a
MPLS DRIVER
419a
FORWARDING CARD

FIG. 13C

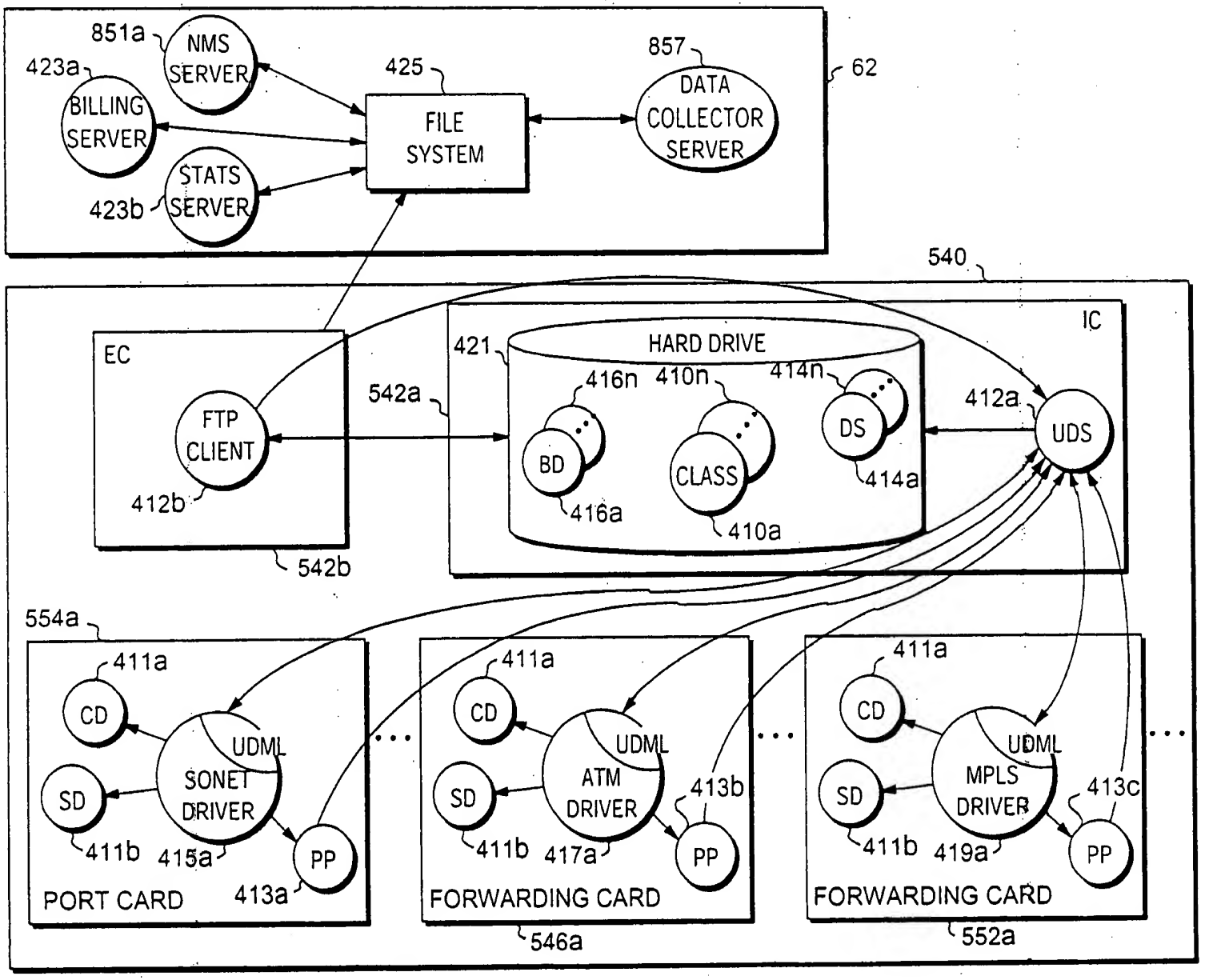

851a
NMS SERVER
423a
BILLING SERVER
423b
STATS SERVER
425
FILE SYSTEM
857
DATA COLLECTOR SERVER
62
540
IC
EC
FTP CLIENT
412b
542b
542a
421
HARD DRIVE
416n
410n
414n
BD
416a
CLASS
410a
DS
414a
412a
UDS
554a
411a
CD
UDML
SONET DRIVER
SD
411b
415a
PP
413a
PORT CARD
ATM DRIVER
417a
413b
FORWARDING CARD
546a
MPLS DRIVER
419a
413c
552a

FIG. 13D

SERVICE ENDPOINT TABLE 76

	SERVICE ENDPOINT #	PORT PID
78	1	1500
80	2	1501
82	3	1501
84	4	1501
86	5	1502
88	6	1502
90	7	1503
92	8	1503
94	9	1503
168	10	1502
	⋮	⋮

FIG. 14A

LOGICAL TO PHYSICAL CARD TABLE 100

	98 LID	102 PRIMARY PID	104 BACK-UP PID
106	30	500	513
109	31	501	513
	⋮	⋮	⋮

FIG. 14B

LOGICAL TO PHYSICAL PORT TABLE 101

	98 LID	102 PRIMARY PID	104 BACK-UP PID
107	40	1500	1600
	⋮	⋮	⋮

FIG. 14C

ATM GROUP TABLE 108

GROUP #	CARD LID	...
1	30	
2	30	
3	30	
4	30	

FIG. 14D

ATM INTERFACE TABLE 114

ATM IF	ATM GROUP	SE	...
1	1	1	
2	1	1	
3	1	1	
4	2	2	
5	2	3	
6	2	4	
.	.	.	.
.	.	.	.
.	.	.	.
12	3	10	
.	.	.	.
.	.	.	.
.	.	.	.

170

FIG. 14E

SOFTWARE LOAD RECORD 128a

130	CONTROL SHIM	LID	132
134	atm-cntl.exe	30	

FIG. 14F

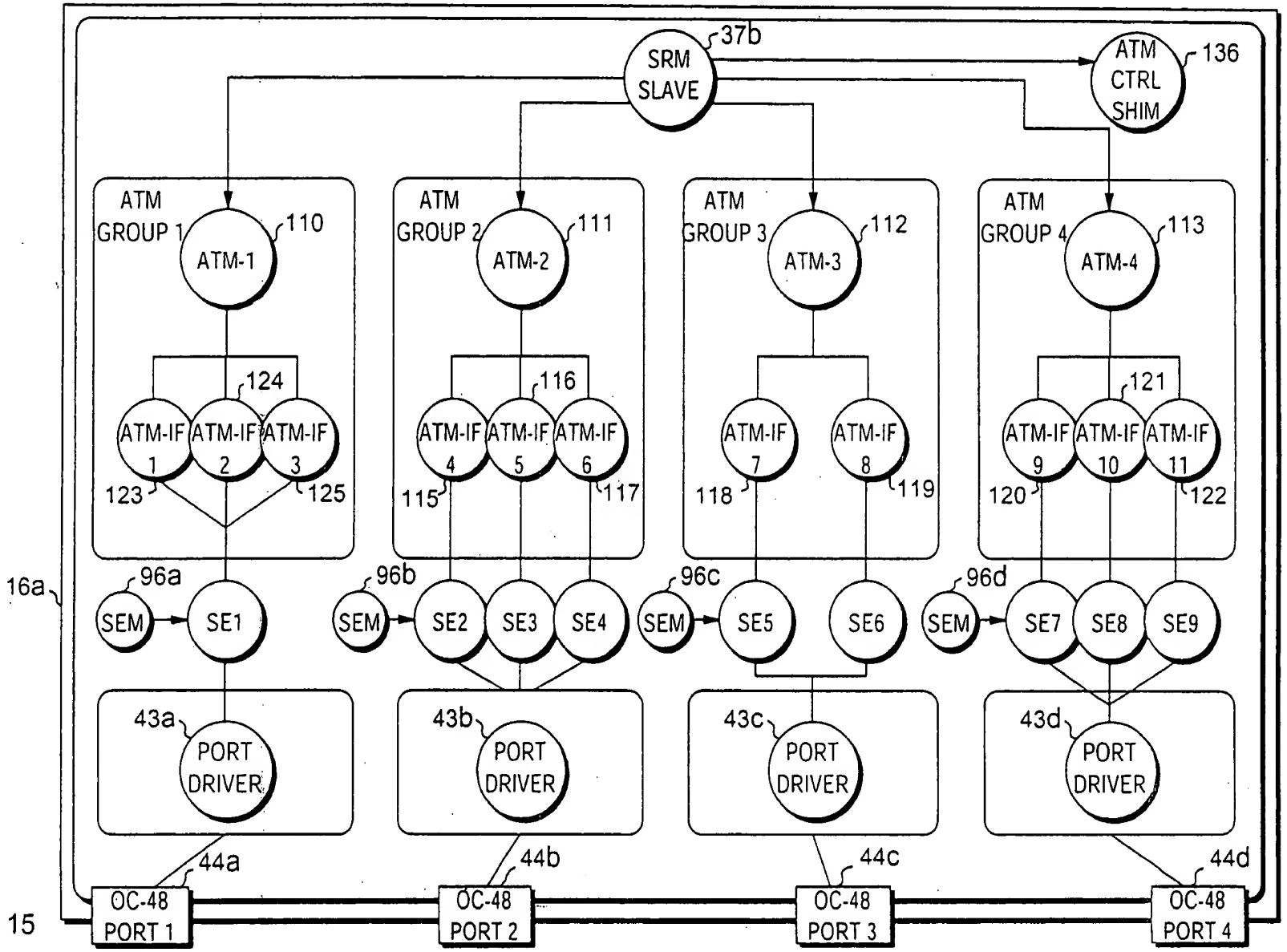

SRM SLAVE
37b
ATM CTRL SHIM
136
ATM GROUP 1
ATM-1
110
ATM GROUP 2
ATM-2
111
ATM GROUP 3
ATM-3
112
ATM GROUP 4
ATM-4
113
124
116
121
ATM-IF 1
ATM-IF 2
ATM-IF 3
ATM-IF 4
ATM-IF 5
ATM-IF 6
ATM-IF 7
ATM-IF 8
ATM-IF 9
ATM-IF 10
ATM-IF 11
123
125
115
117
118
119
120
122
16a
96a
96b
96c
96d
SEM
SE1
SE2
SE3
SE4
SE5
SE6
SE7
SE8
SE9
43a
43b
43c
43d
PORT DRIVER
44a
44b
44c
44d
OC-48 PORT 1
OC-48 PORT 2
OC-48 PORT 3
OC-48 PORT 4

FIG. 15

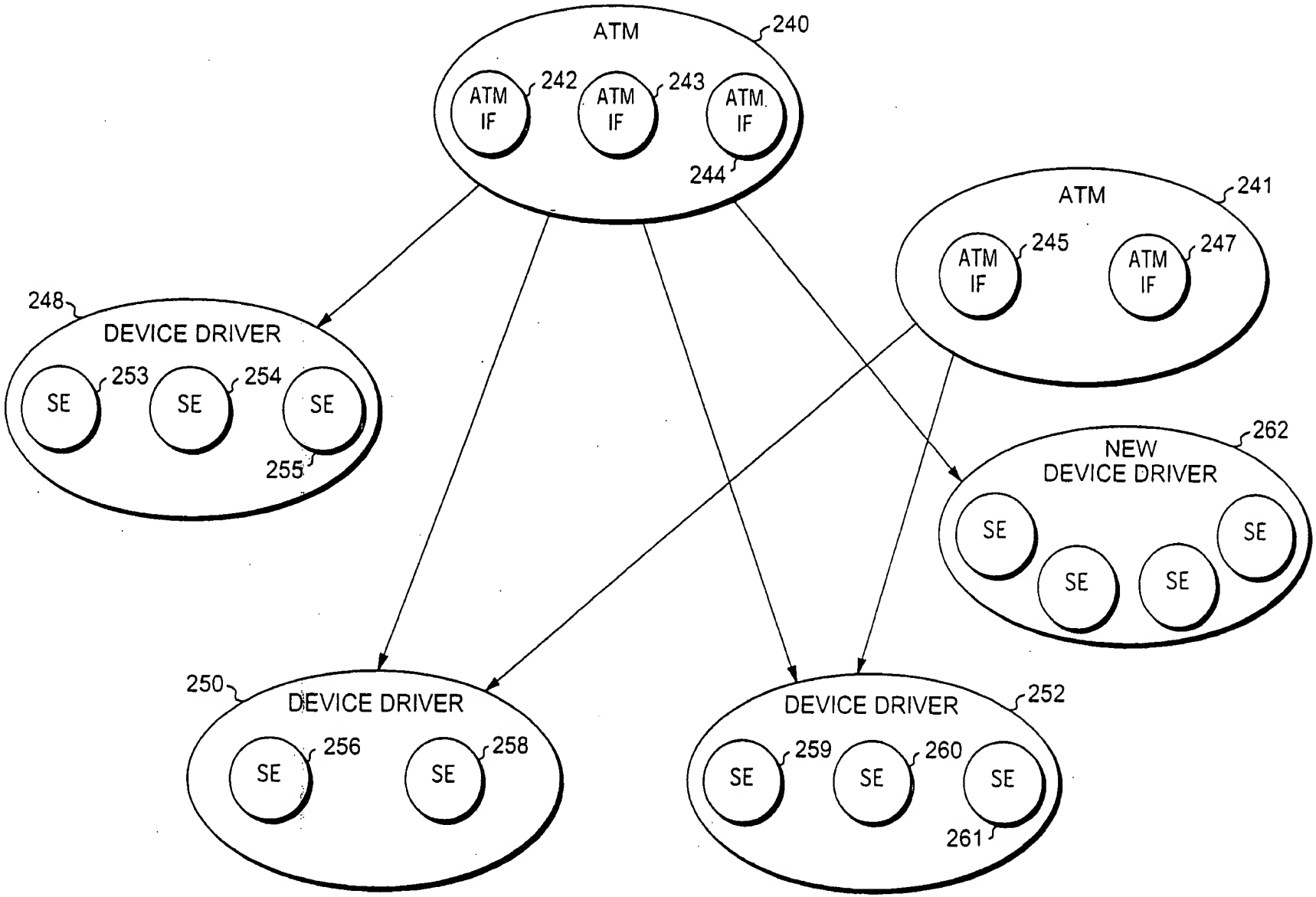

ATM
240
ATM IF
242
ATM IF
243
ATM IF
244
ATM
241
ATM IF
245
ATM IF
247
248
DEVICE DRIVER
SE
253
SE
254
SE
255
NEW DEVICE DRIVER
262
SE
SE
SE
SE
250
DEVICE DRIVER
SE
256
SE
258
DEVICE DRIVER
252
SE
259
SE
260
SE
261

FIG. 16A

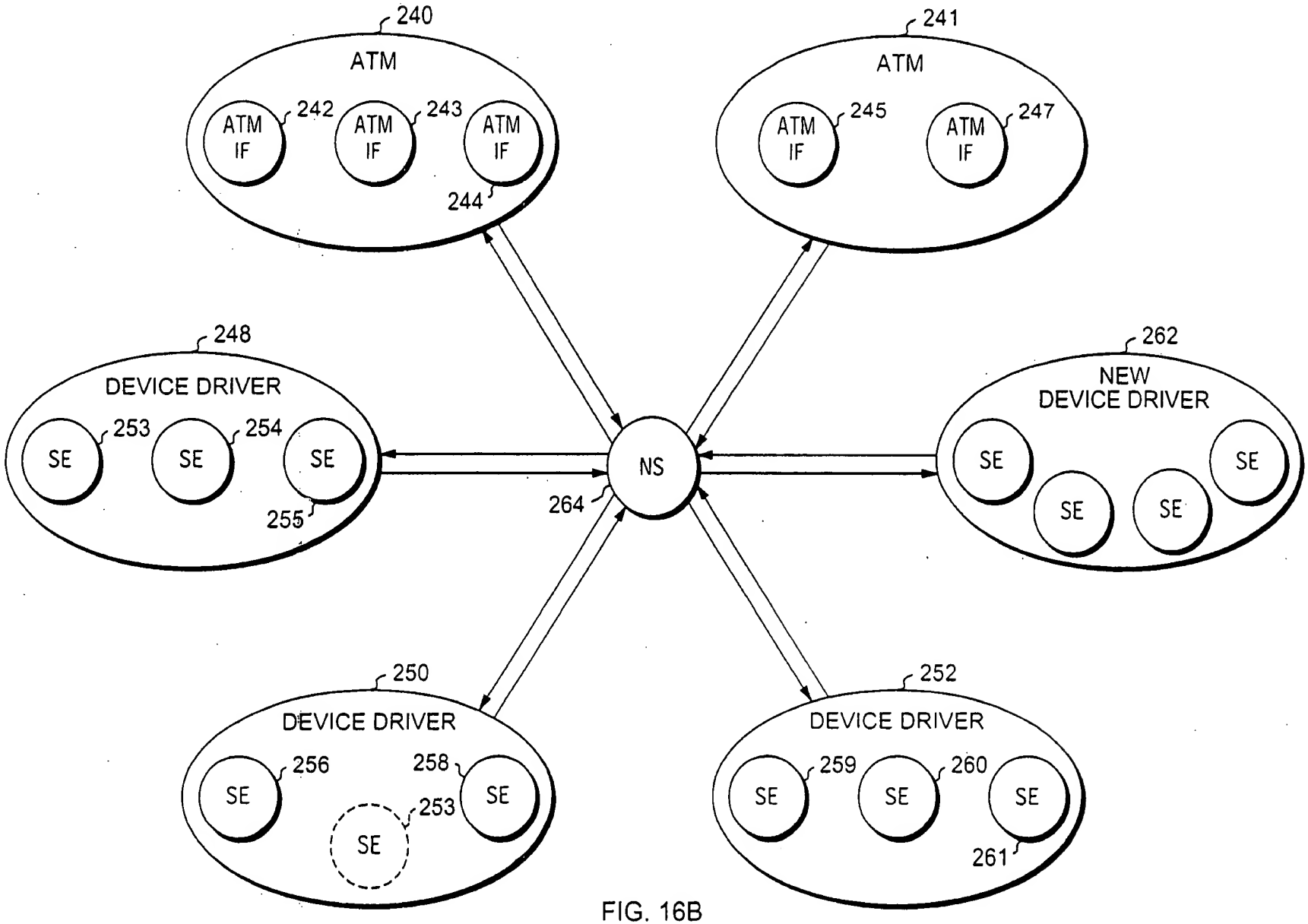

240
ATM
ATM IF
242
ATM IF
243
ATM IF
244
241
ATM
ATM IF
245
ATM IF
247
248
DEVICE DRIVER
SE
253
SE
254
SE
255
NS
264
262
NEW DEVICE DRIVER
SE
SE
SE
SE
250
DEVICE DRIVER
SE
256
SE
253
SE
258
252
DEVICE DRIVER
SE
259
SE
260
SE
261

FIG. 16B

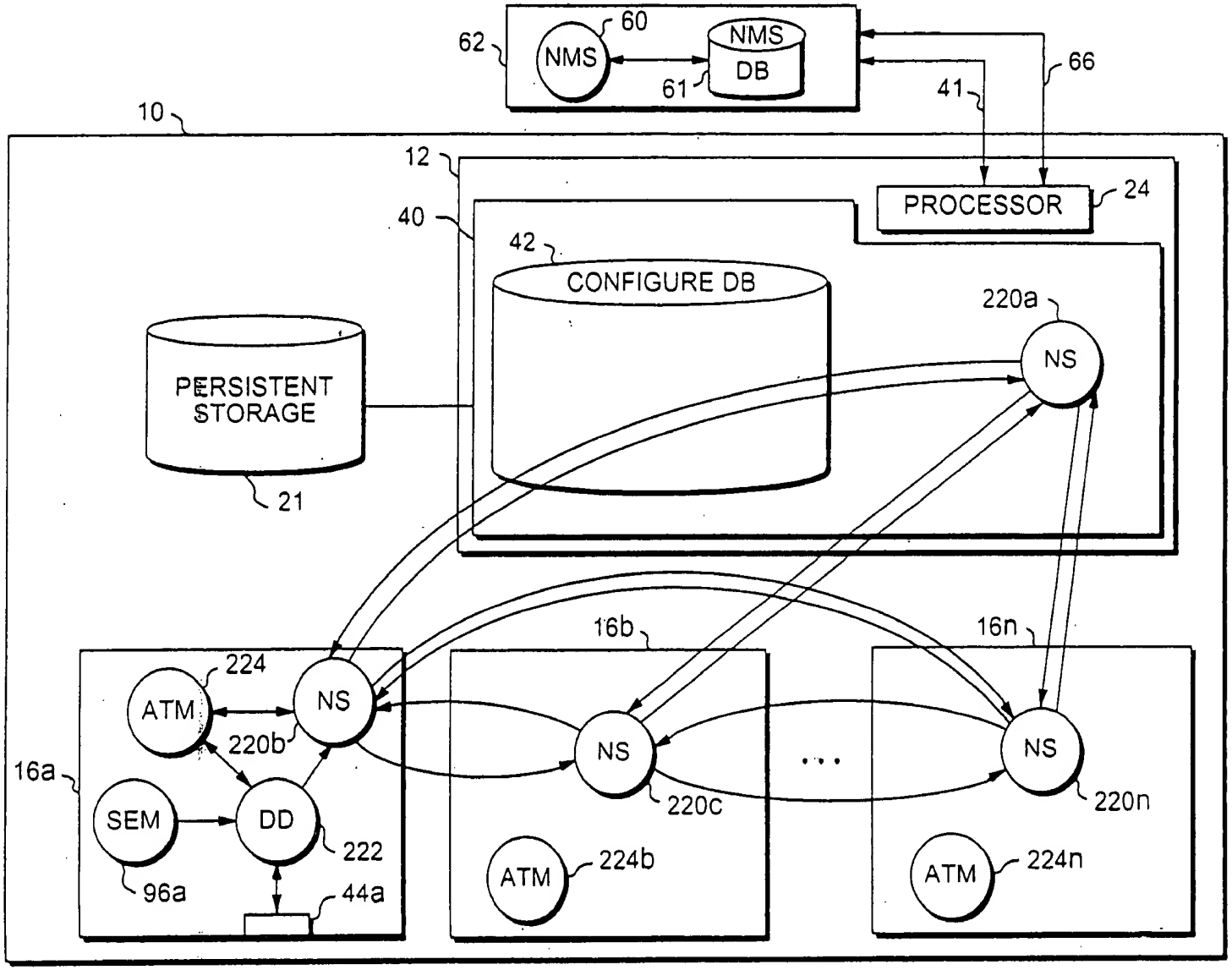

62
NMS
60
NMS
DB
61
66
41
10
12
PROCESSOR
24
40
42
CONFIGURE DB
220a
NS
PERSISTENT STORAGE
21
16b
16n
224
ATM
NS
220b
16a
SEM
DD
222
96a
44a
NS
220c
NS
220n
ATM
224b
ATM
224n

FIG. 16C

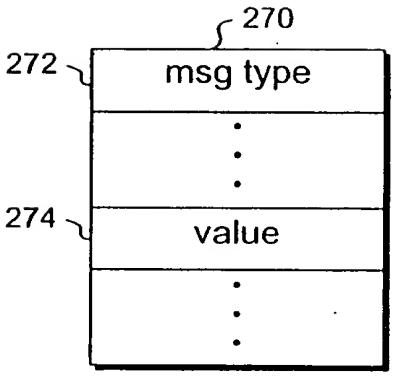


FIG. 16D

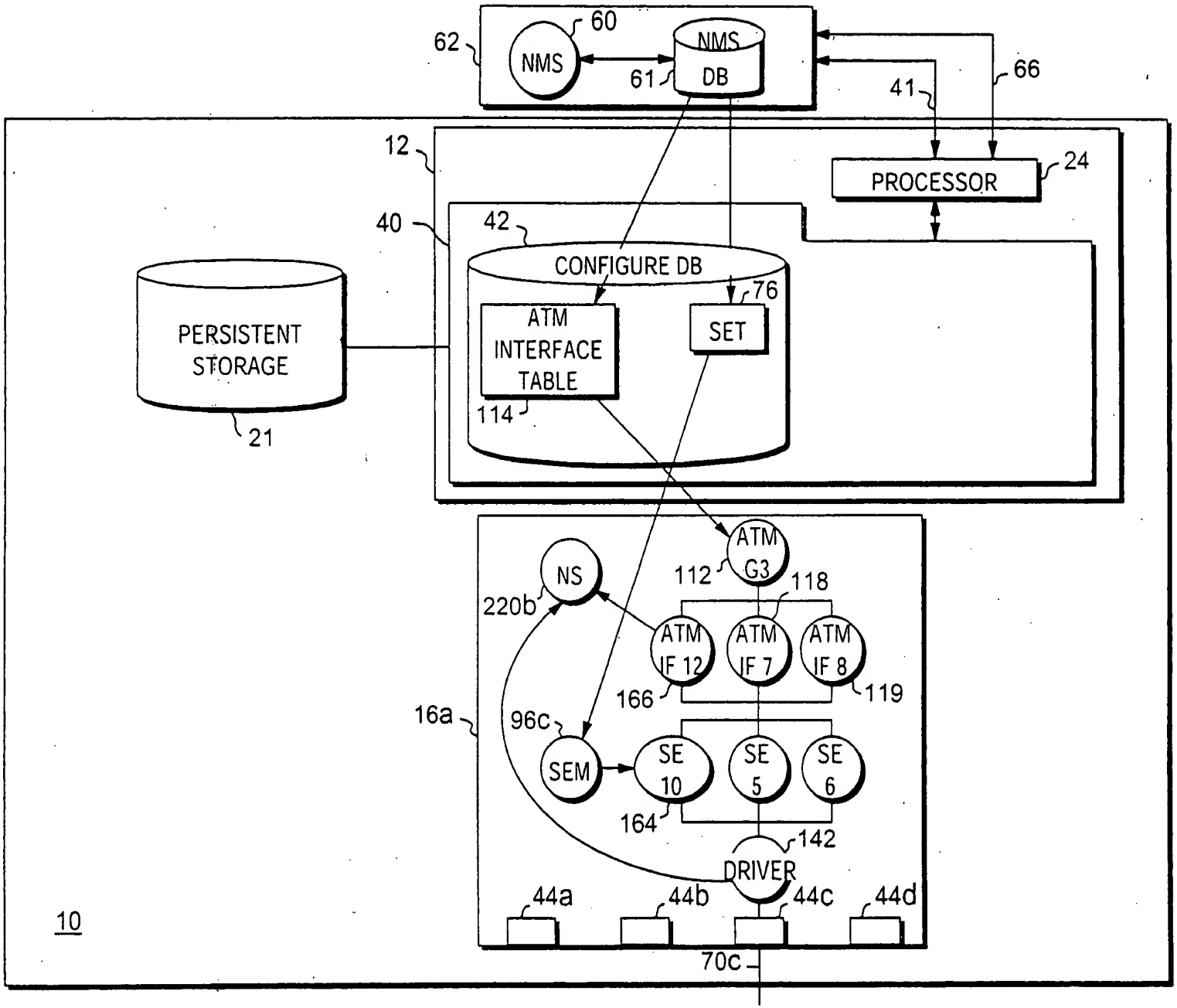

62
60
NMS
NMS
DB
61
66
41
12
PROCESSOR
24
40
42
CONFIGURE DB
76
PERSISTENT
STORAGE
ATM
INTERFACE
TABLE
SET
114
21
ATM
G3
112
118
NS
220b
ATM
IF 12
ATM
IF 7
ATM
IF 8
166
119
16a
96c
SEM
SE
10
SE
5
SE
6
164
142
DRIVER
44a
44b
44c
44d
10
70c

FIG. 17

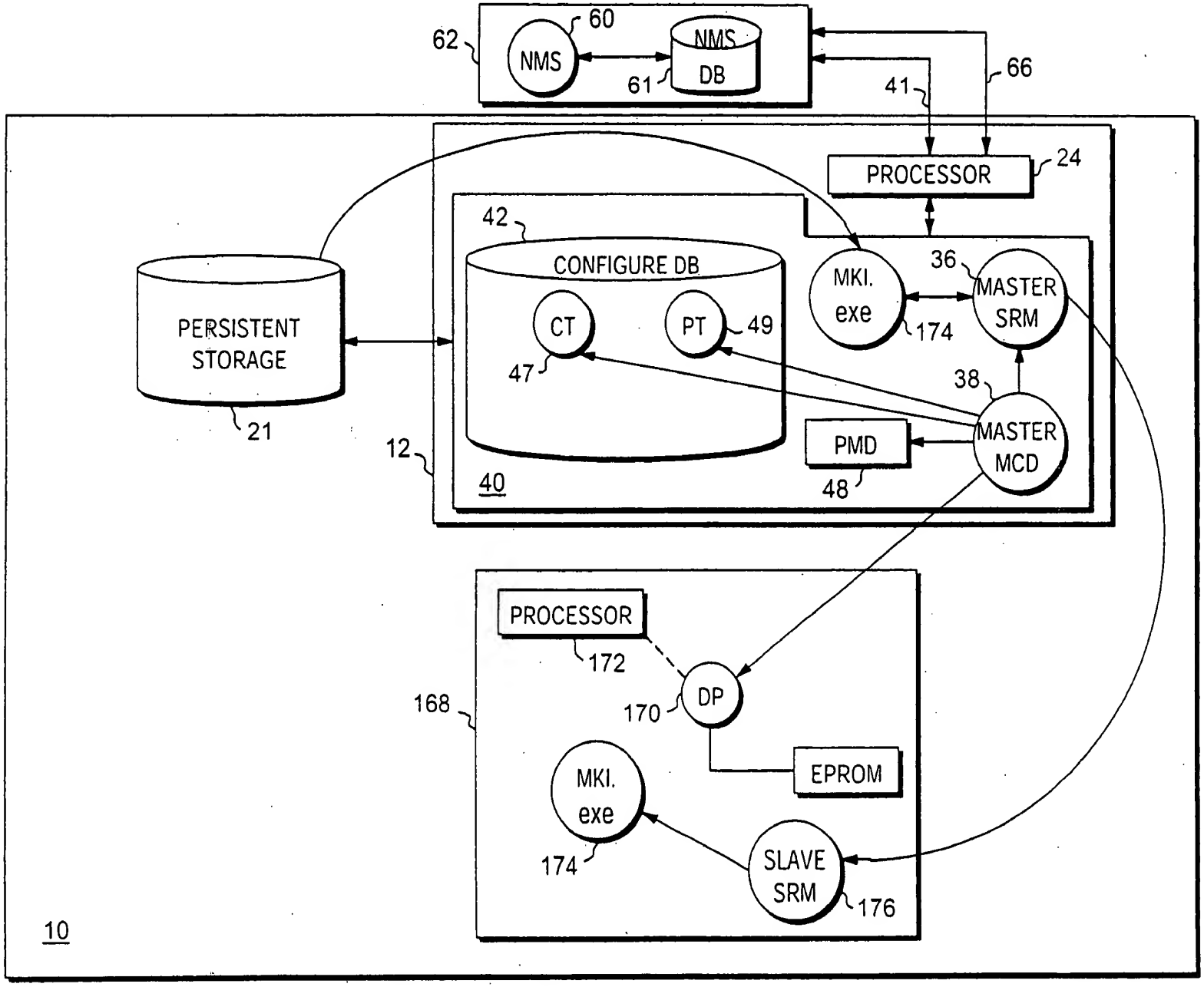

62
60
NMS
NMS DB
61
66
41
PROCESSOR
24
42
CONFIGURE DB
CT
PT
49
47
MKI. exe
36
MASTER SRM
174
38
MASTER MCD
PMD
48
PERSISTENT STORAGE
21
12
40
PROCESSOR
172
168
DP
170
EPROM
MKI. exe
174
SLAVE SRM
176
10

FIG. 18

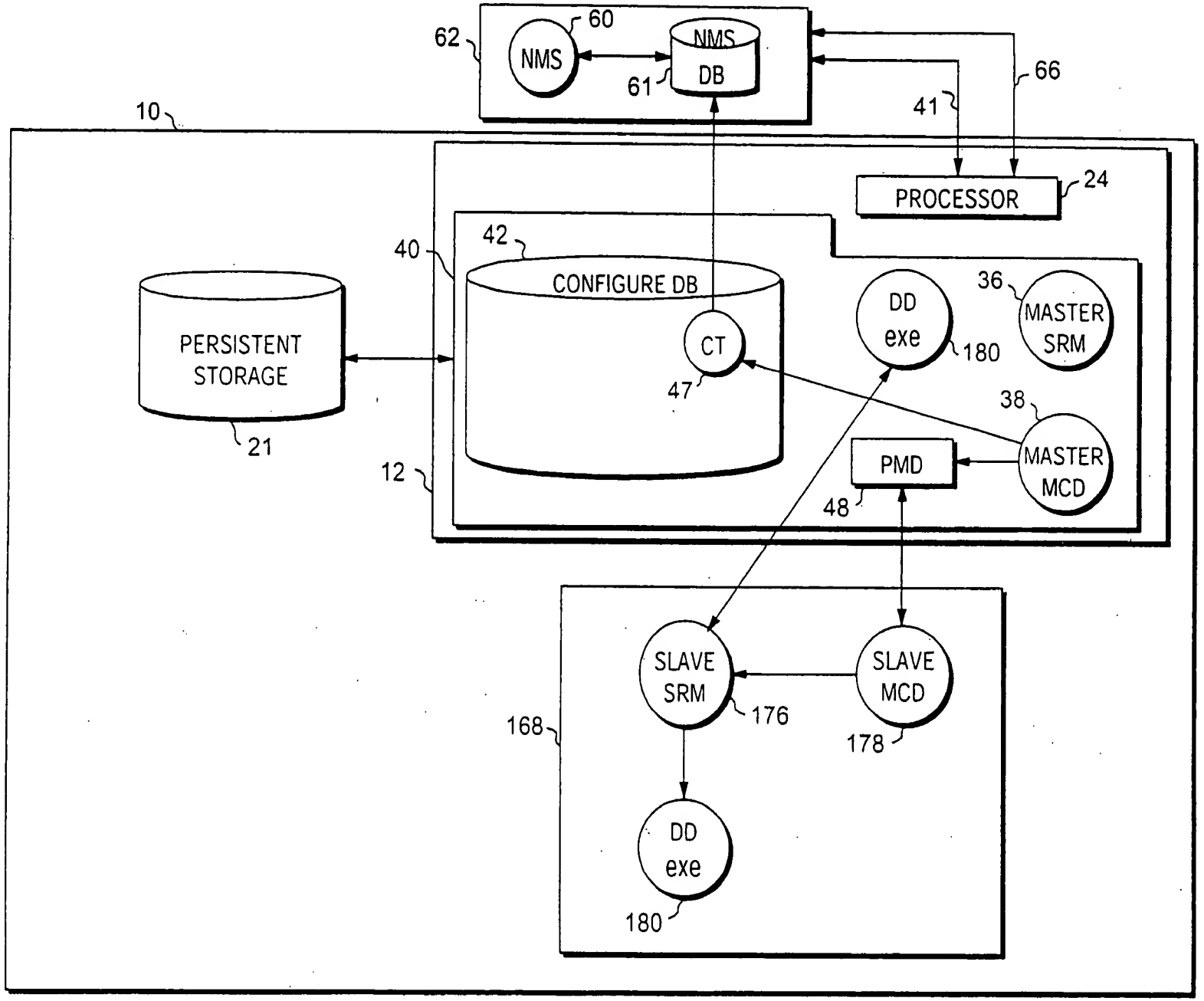

62
NMS
60
NMS
DB
61
66
41
10
PROCESSOR
24
42
40
CONFIGURE DB
CT
47
PERSISTENT
STORAGE
21
12
DD
exe
180
36
MASTER
SRM
38
MASTER
MCD
PMD
48
SLAVE
SRM
176
SLAVE
MCD
178
168
DD
exe
180

FIG. 19

FIG. 20

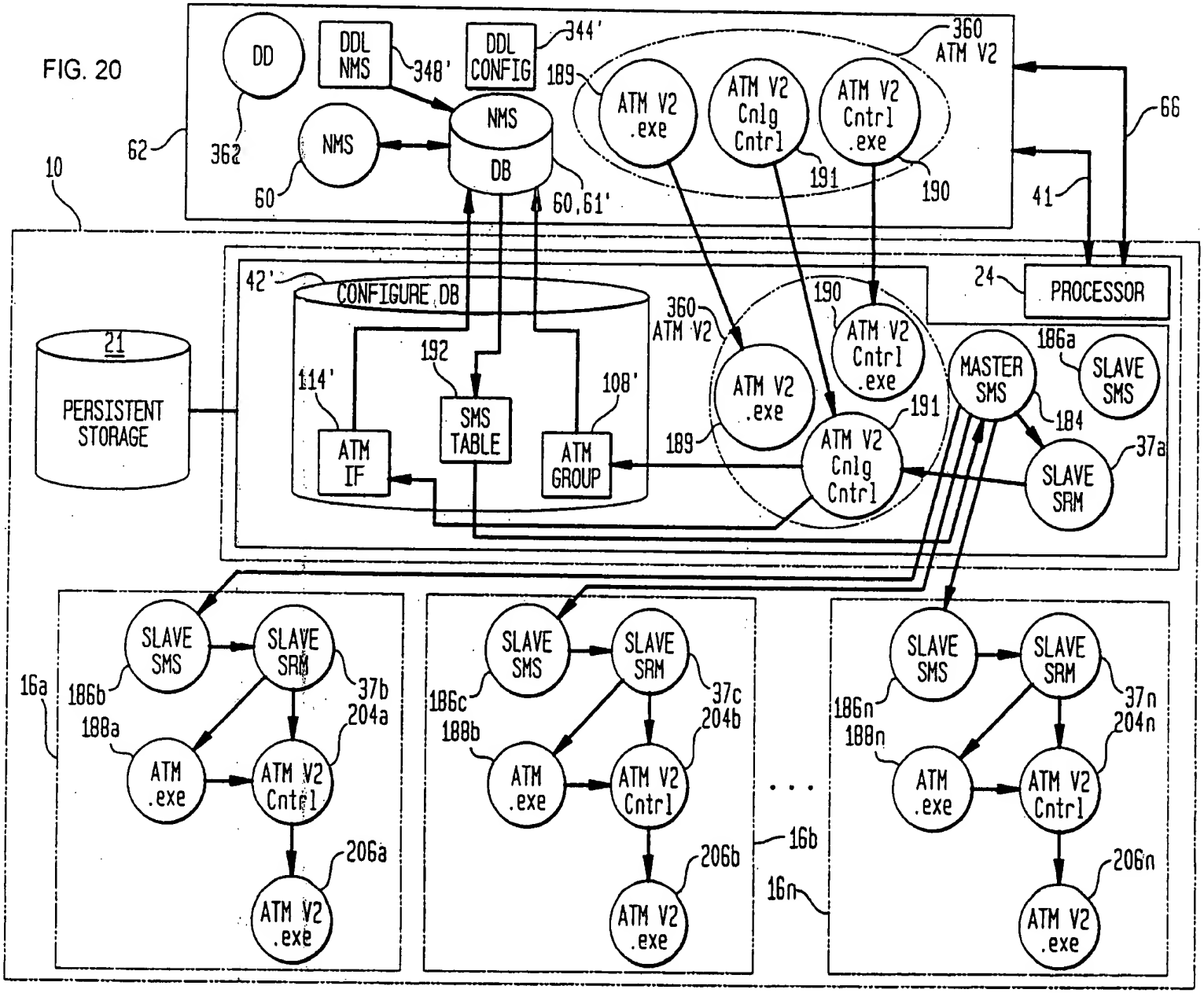

DD
DDL NMS
348'
DDL CONFIG
344'
360 ATM V2
189
ATM V2 .exe
ATM V2 Cnlg Cntrl
ATM V2 Cntrl .exe
66
62
362
NMS
NMS
DB
60
60,61'
191
190
41
10
42'
CONFIGURE DB
24
PROCESSOR
360 ATM V2
190
21
PERSISTENT STORAGE
192
114'
108'
SMS TABLE
ATM IF
ATM GROUP
ATM V2 .exe
ATM V2 Cntrl .exe
MASTER SMS
186a
SLAVE SMS
184
189
191
ATM V2 Cnlg Cntrl
SLAVE SRM
37a
SLAVE SMS
SLAVE SRM
16a
186b
37b
188a
204a
ATM .exe
ATM V2 Cntrl
206a
ATM V2 .exe
SLAVE SMS
SLAVE SRM
186c
37c
188b
204b
ATM .exe
ATM V2 Cntrl
206b
ATM V2 .exe
16b
16n
SLAVE SMS
SLAVE SRM
186n
37n
188n
204n
ATM .exe
ATM V2 Cntrl
206n
ATM V2 .exe

FIG. 21

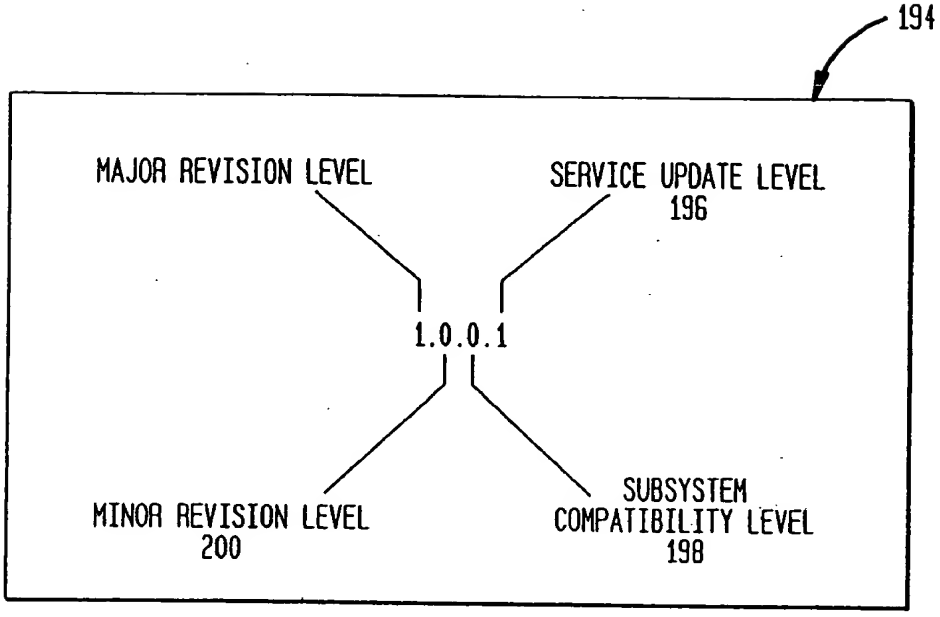

194
MAJOR REVISION LEVEL
SERVICE UPDATE LEVEL
196
1.0.0.1
MINOR REVISION LEVEL
200
SUBSYSTEM
COMPATIBILITY LEVEL
198

FIG. 22

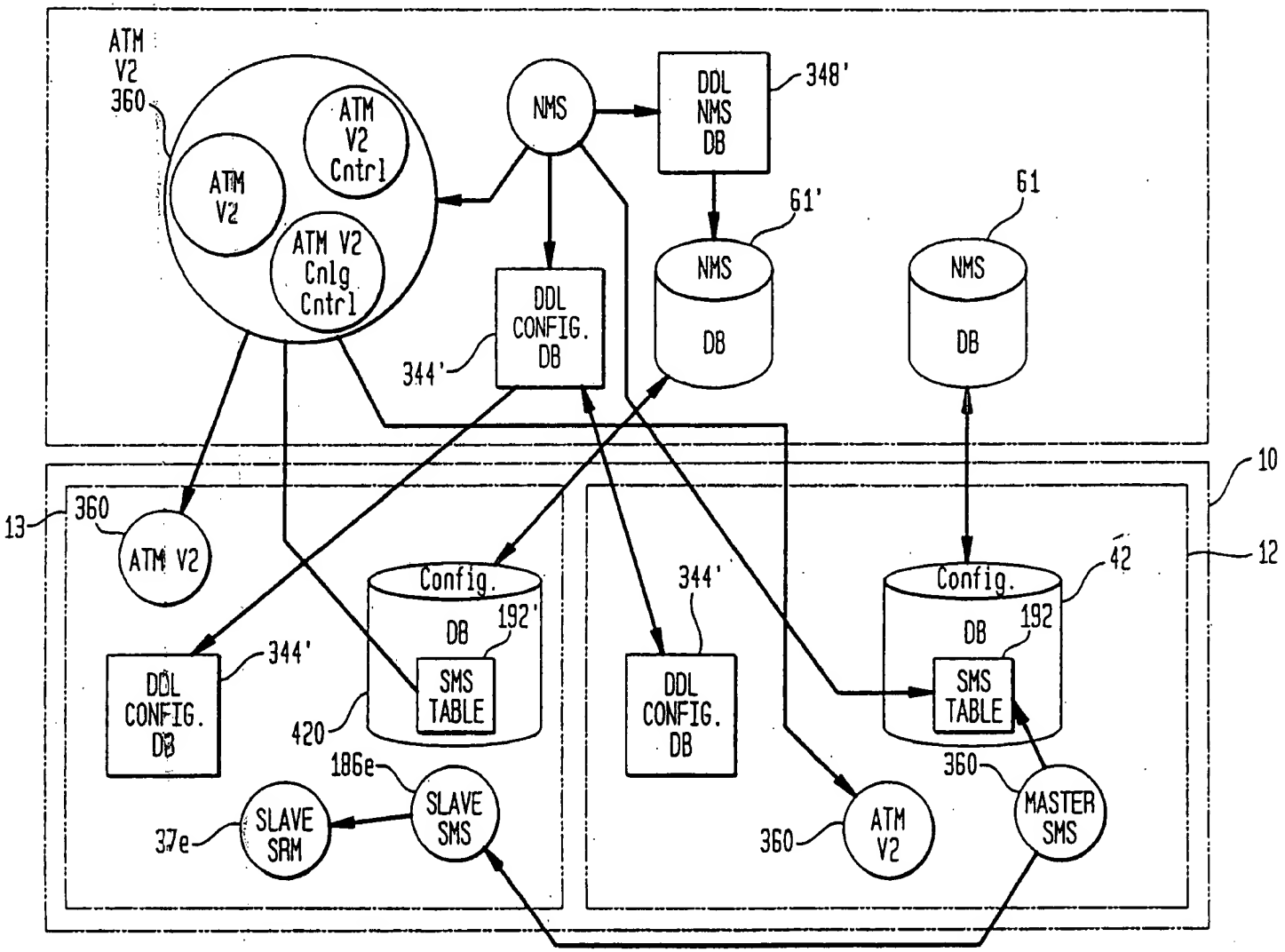
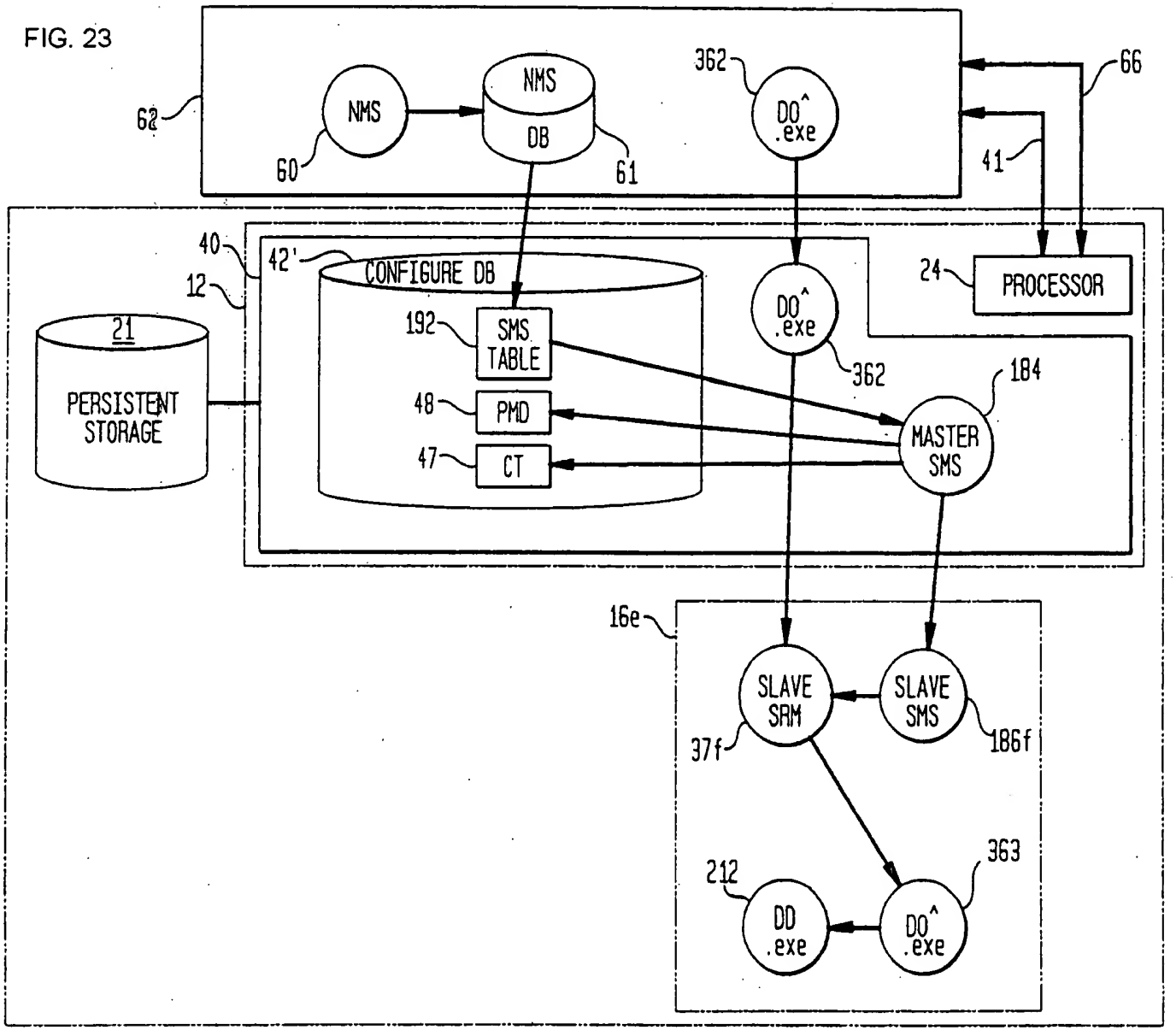

ATM V2 360
ATM V2
ATM V2 Cntrl
ATM V2 Cnlg Cntrl
NMS
DDL NMS DB
348'
61'
61
NMS
DB
NMS
DB
DDL CONFIG. DB
344'
10
12
13
360
ATM V2
Config.
DB
192'
SMS TABLE
420
344'
DDL CONFIG. DB
186e
SLAVE SMS
37e
SLAVE SRM
344'
DDL CONFIG. DB
360
ATM V2
Config.
DB
192
42
SMS TABLE
360
MASTER SMS

FIG. 23


62
NMS
60
NMS
DB
61
362
DO^ .exe
66
41
40
42'
CONFIGURE DB
12
21
PERSISTENT STORAGE
192
SMS TABLE
48
PMD
47
CT
DO^ .exe
362
24
PROCESSOR
184
MASTER SMS
16e
SLAVE SRM
37f
SLAVE SMS
186f
212
DD .exe
363
DO^ .exe

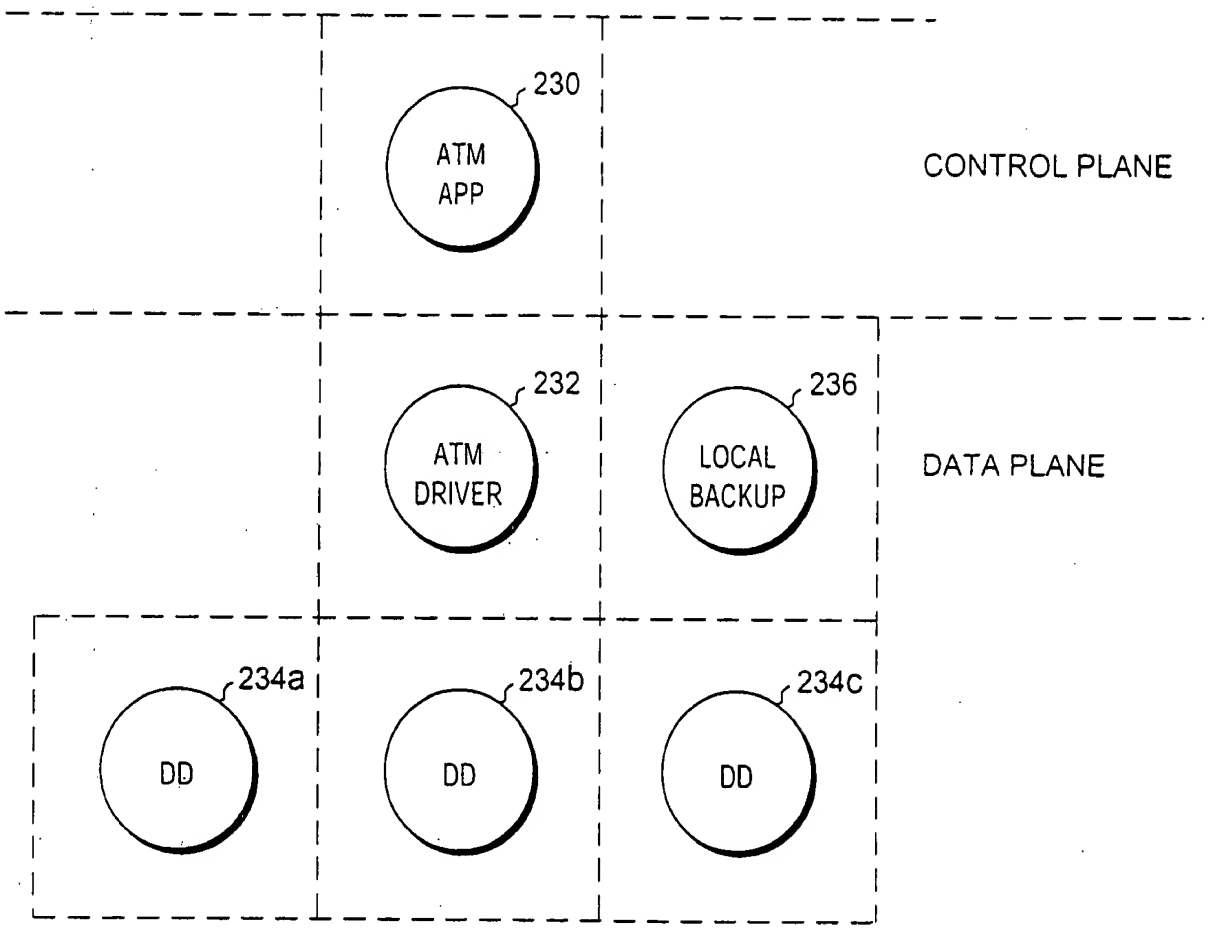

230
ATM
APP
CONTROL PLANE
232
ATM
DRIVER
236
LOCAL
BACKUP
DATA PLANE
234a
DD
234b
DD
234c
DD

FIG. 24

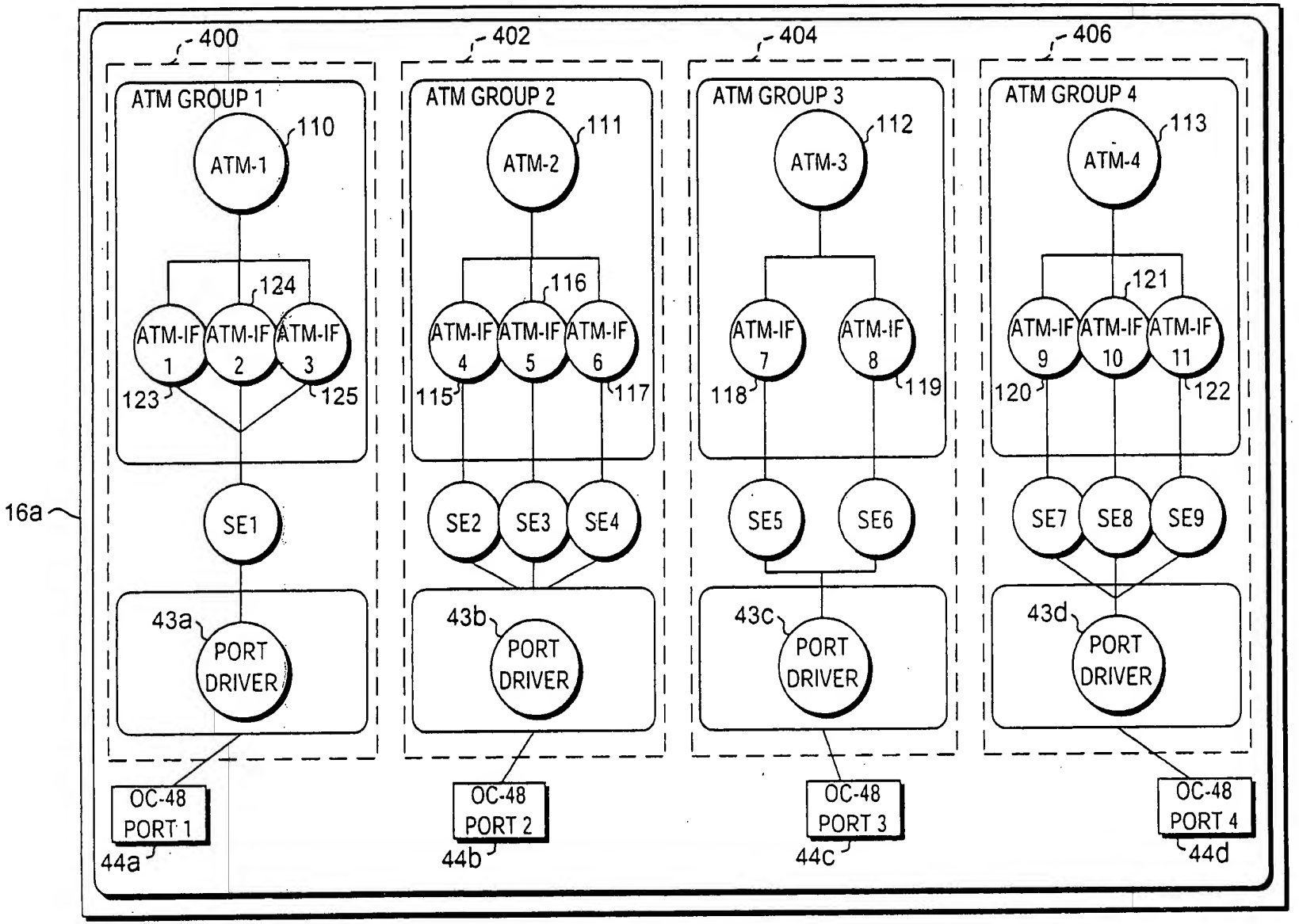

400
402
404
406
ATM GROUP 1
ATM GROUP 2
ATM GROUP 3
ATM GROUP 4
ATM-1
110
ATM-2
111
ATM-3
112
ATM-4
113
124
116
121
ATM-IF 1
ATM-IF 2
ATM-IF 3
ATM-IF 4
ATM-IF 5
ATM-IF 6
ATM-IF 7
ATM-IF 8
ATM-IF 9
ATM-IF 10
ATM-IF 11
123
125
115
117
118
119
120
122
16a
SE1
SE2
SE3
SE4
SE5
SE6
SE7
SE8
SE9
43a
43b
43c
43d
PORT DRIVER
OC-48 PORT 1
OC-48 PORT 2
OC-48 PORT 3
OC-48 PORT 4
44a
44b
44c
44d

FIG. 25

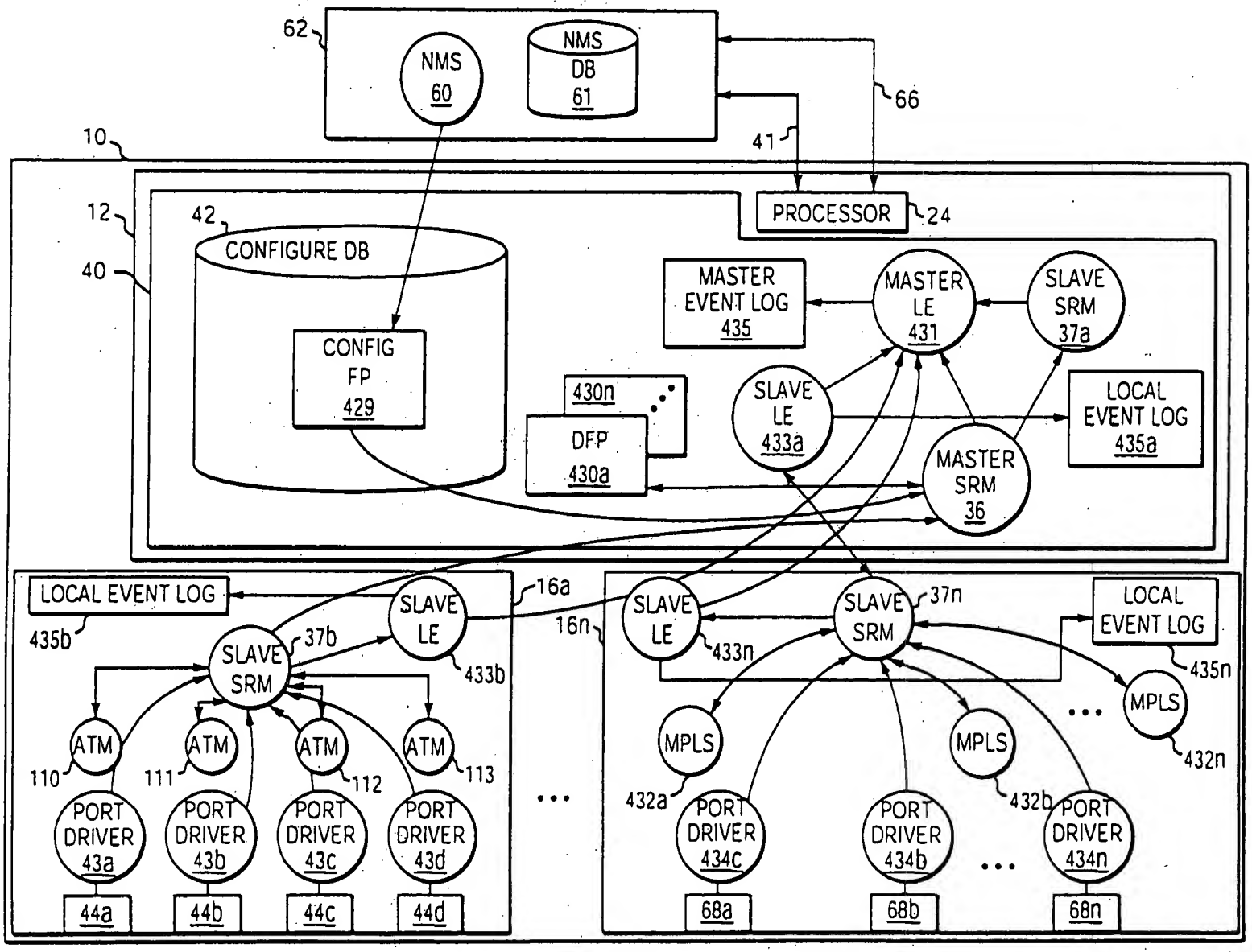

62
NMS
60
NMS
DB
61
66
41
10
12
42
CONFIGURE DB
40
PROCESSOR
24
CONFIG
FP
429
MASTER
EVENT LOG
435
MASTER
LE
431
SLAVE
SRM
37a
430n
DFP
430a
SLAVE
LE
433a
LOCAL
EVENT LOG
435a
MASTER
SRM
36
LOCAL EVENT LOG
435b
SLAVE
LE
16a
SLAVE
SRM
37b
433b
ATM
110
ATM
111
ATM
112
ATM
113
PORT
DRIVER
43a
PORT
DRIVER
43b
PORT
DRIVER
43c
PORT
DRIVER
43d
44a
44b
44c
44d
16n
SLAVE
LE
433n
SLAVE
SRM
37n
LOCAL
EVENT LOG
435n
MPLS
432n
MPLS
432a
MPLS
432b
PORT
DRIVER
434c
PORT
DRIVER
434b
PORT
DRIVER
434n
68a
68b
68n

FIG. 26

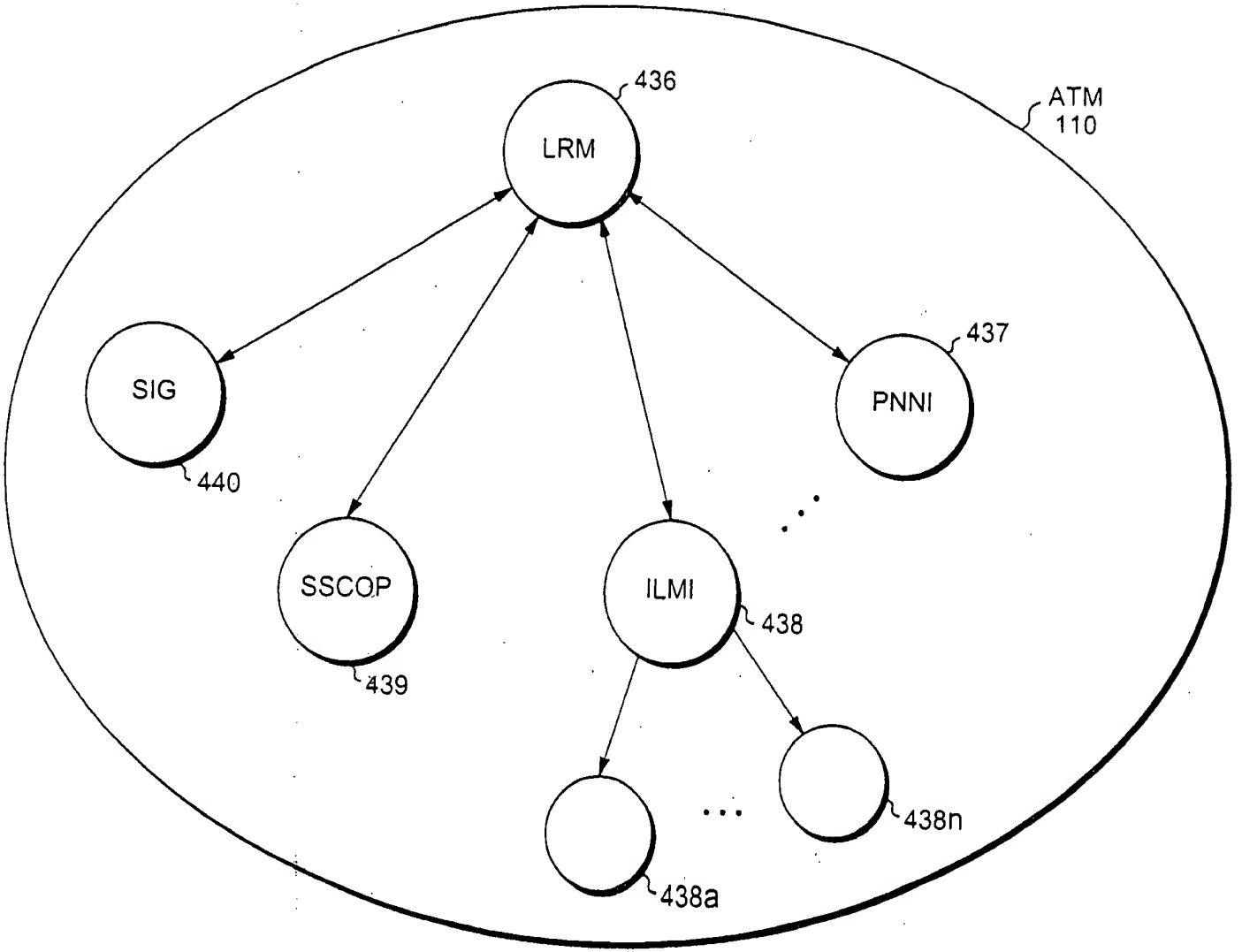


FIG. 27

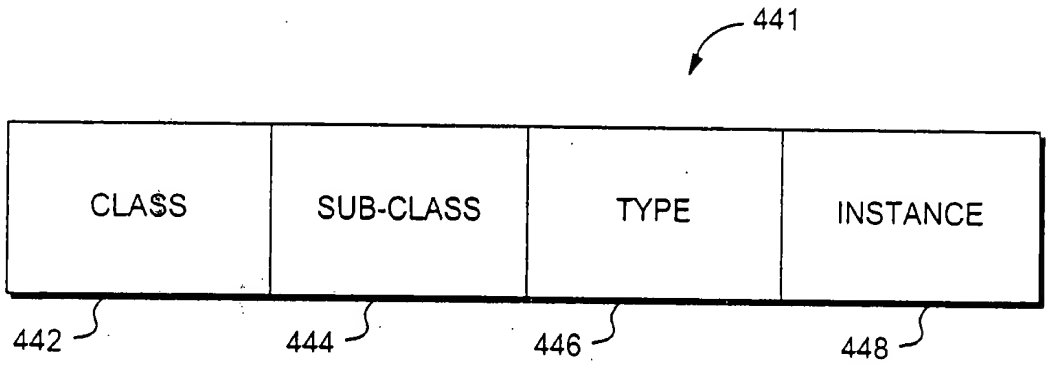


FIG. 28

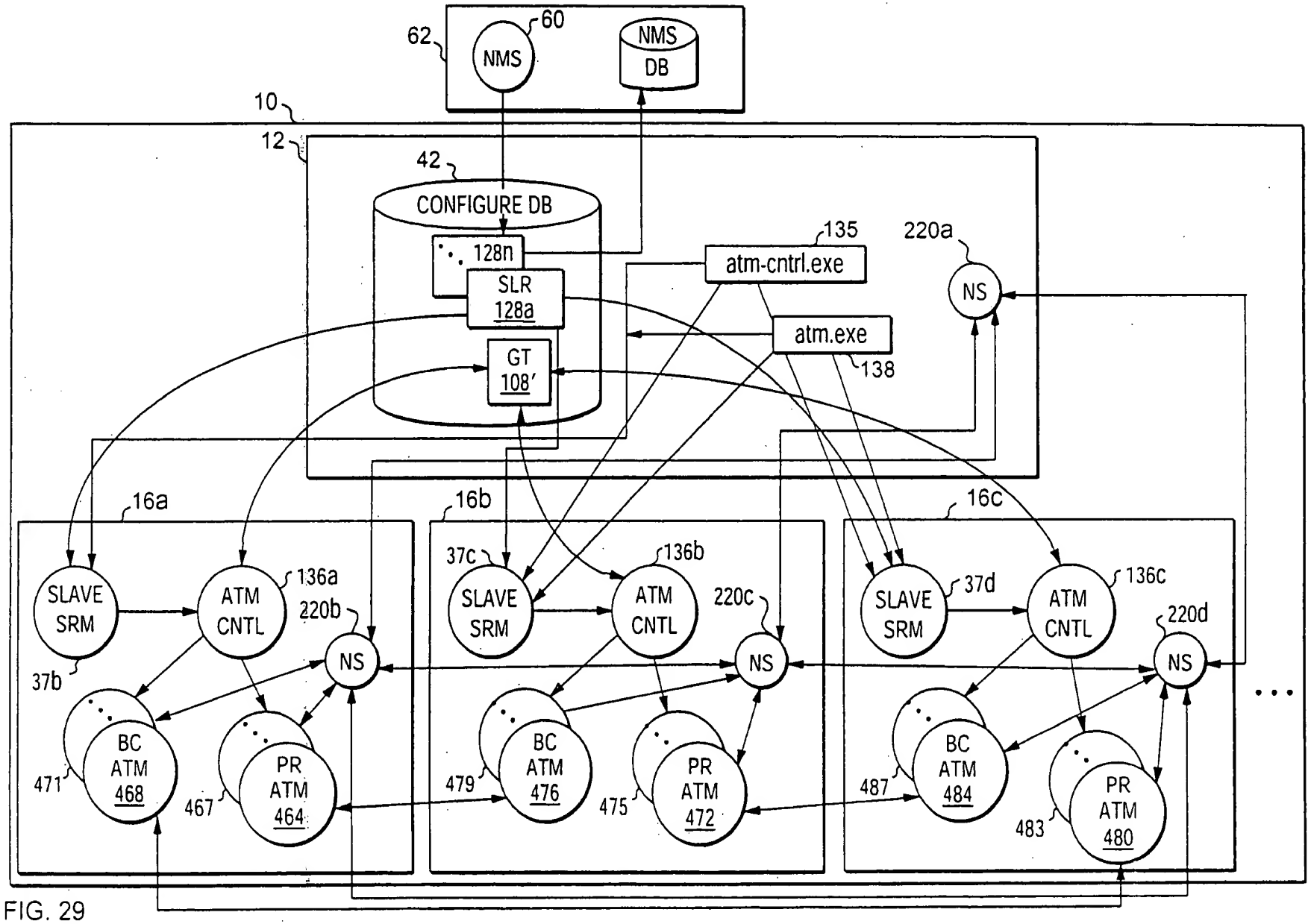

62
60
NMS
NMS DB
10
12
42
CONFIGURE DB
128n
SLR 128a
GT 108'
135
atm-cntrl.exe
220a
NS
atm.exe
138
16a
16b
16c
SLAVE SRM
ATM CNTL
136a
220b
37b
NS
BC ATM 468
471
PR ATM 464
467
37c
136b
220c
479
BC ATM 476
PR ATM 472
475
37d
136c
220d
487
BC ATM 484
PR ATM 480
483

FIG. 29

GROUP TABLE 108'

		447	449	
	GROUP #	PRIMARY CARD LID	BACKUP CARD LID	...
450	1	30	31	
451	2	30	31	
452	3	30	31	
453	4	30	31	
454	5	31	32	
455	6	31	32	
456	7	31	32	
457	8	31	32	
458	9	32	30	
459	10	32	30	
460	11	32	30	
461	12	32	30	
	. . .	. . .	. . .	. . .

FIG. 30

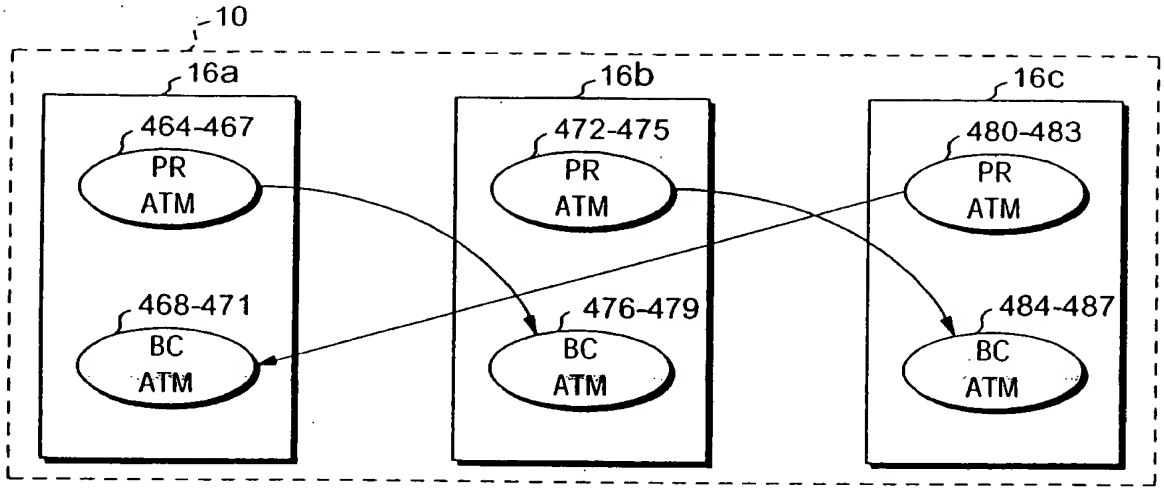


FIG. 31A

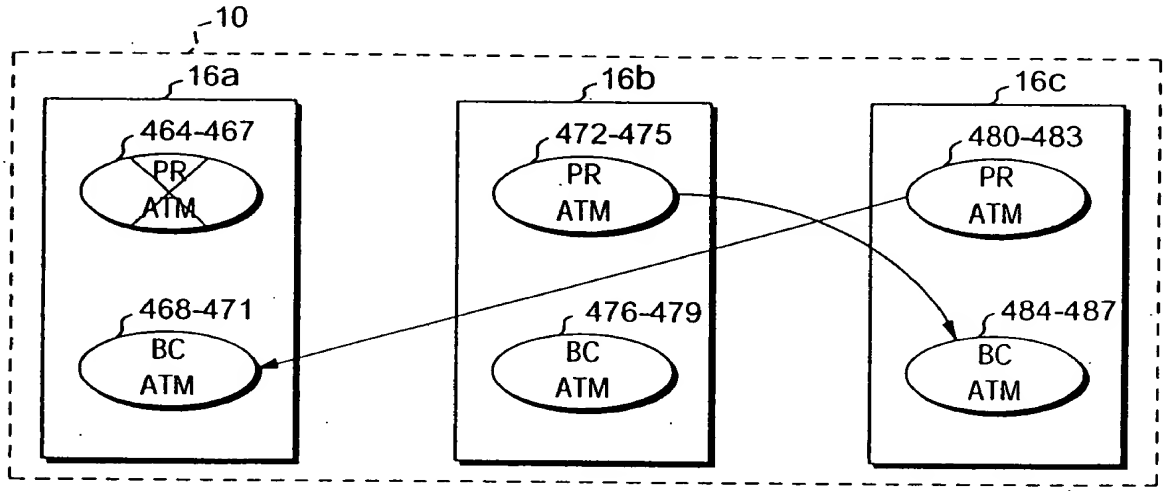


FIG. 31B

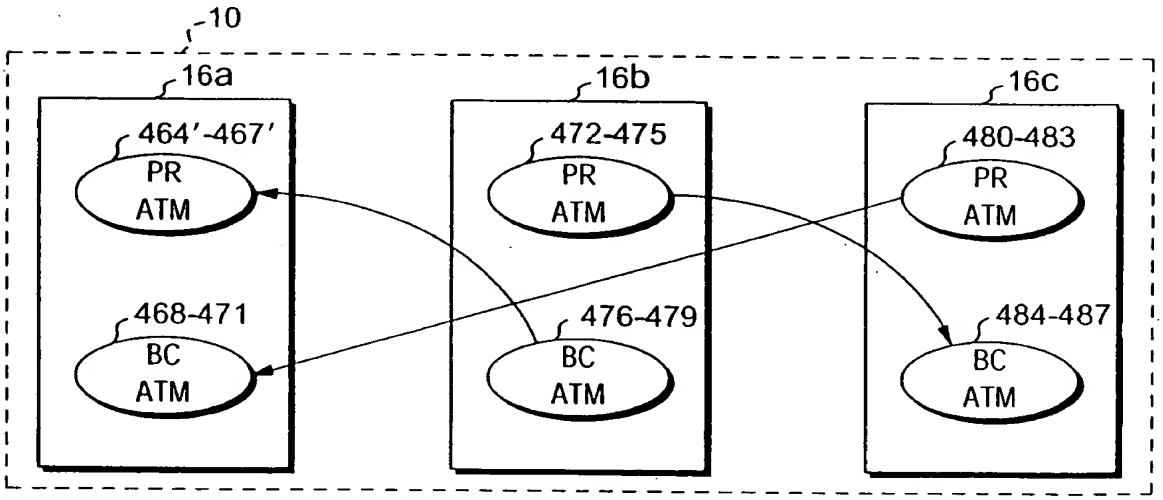


FIG. 31C

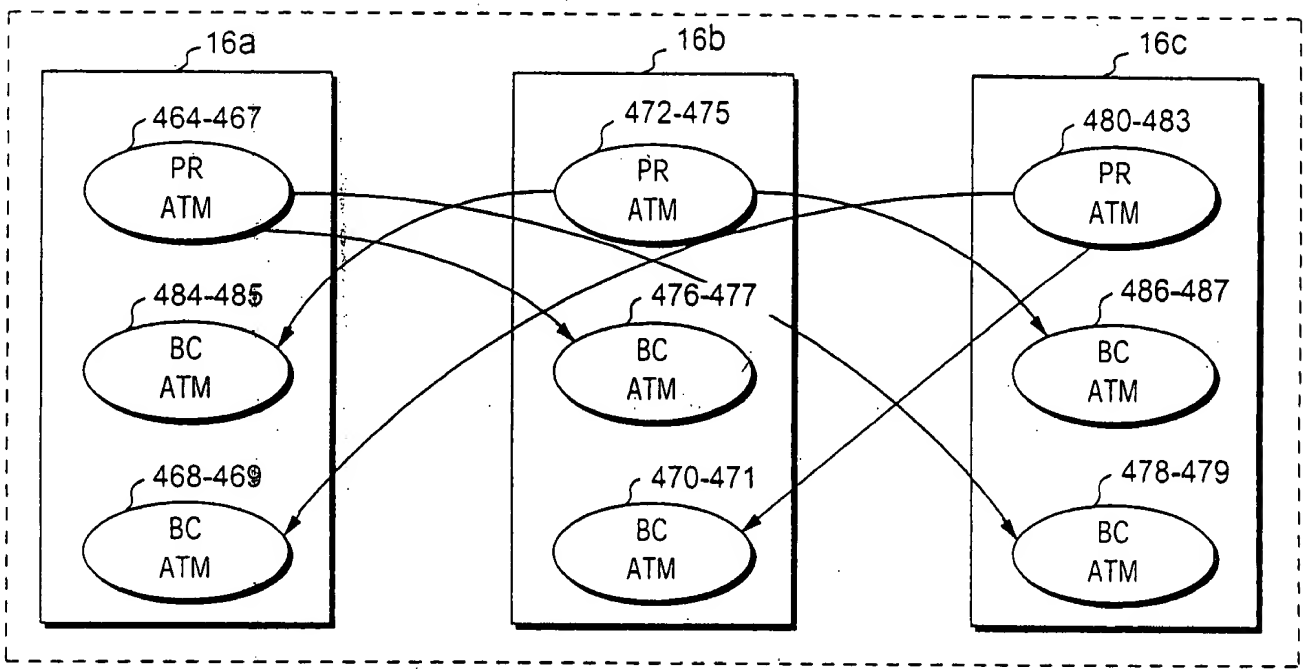

16a
16b
16c
464-467
PR
ATM
484-485
BC
ATM
468-469
BC
ATM
472-475
PR
ATM
476-477
BC
ATM
470-471
BC
ATM
480-483
PR
ATM
486-487
BC
ATM
478-479
BC
ATM

FIG. 32A

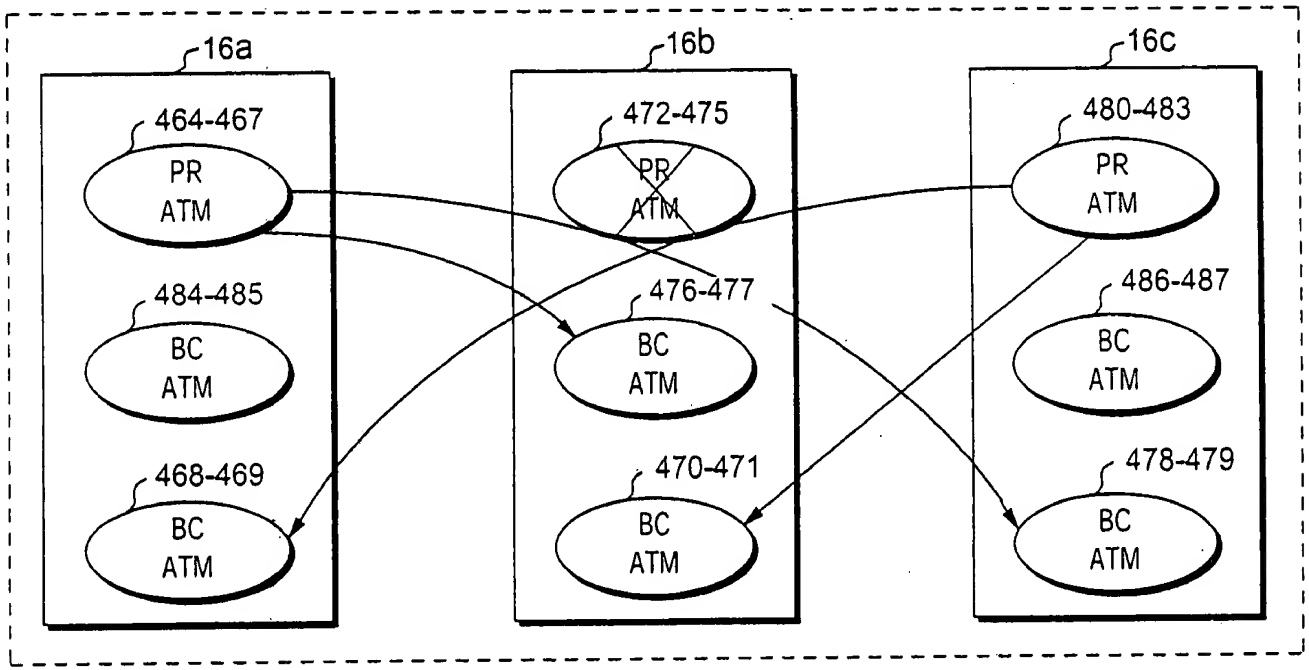

16a
16b
16c
464-467
PR
ATM
484-485
BC
ATM
468-469
BC
ATM
472-475
PR
ATM
476-477
BC
ATM
470-471
BC
ATM
480-483
PR
ATM
486-487
BC
ATM
478-479
BC
ATM

FIG. 32B

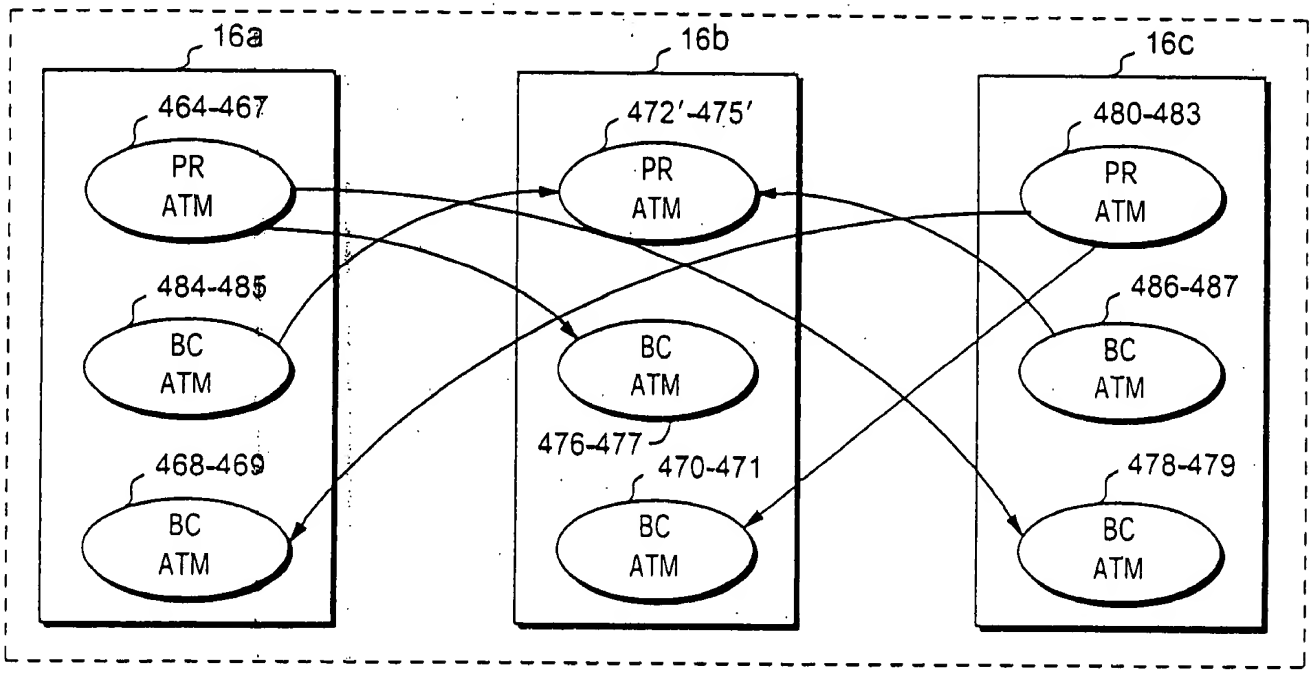

16a
16b
16c
464-467
PR
ATM
484-485
BC
ATM
468-469
BC
ATM
472'-475'
PR
ATM
BC
ATM
476-477
470-471
BC
ATM
480-483
PR
ATM
486-487
BC
ATM
478-479
BC
ATM

FIG. 32C

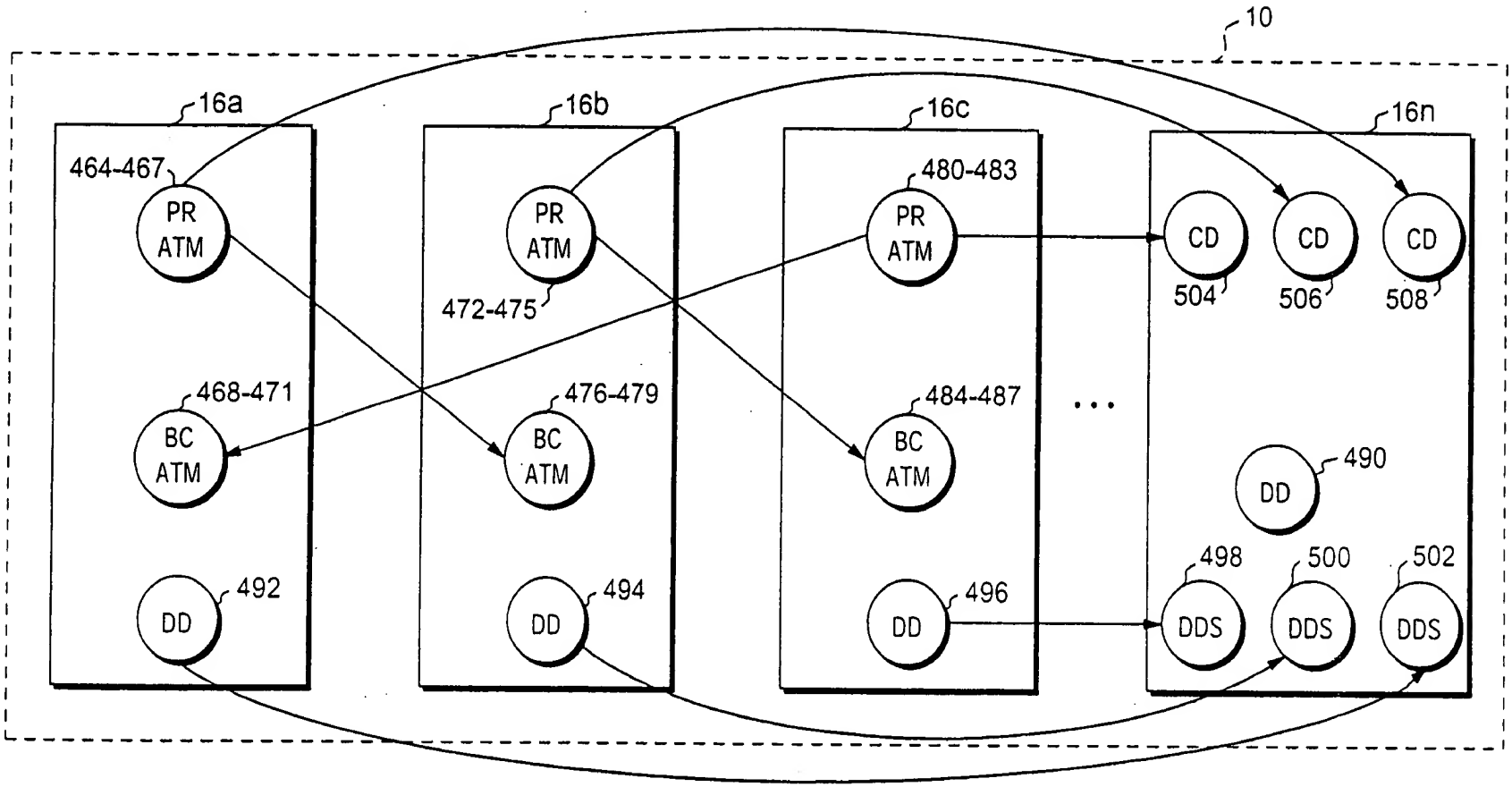

10
16a
16b
16c
16n
464-467
PR ATM
472-475
480-483
468-471
BC ATM
476-479
484-487
CD
504
506
508
490
DD
492
494
496
498
500
502
DDS

FIG. 33A

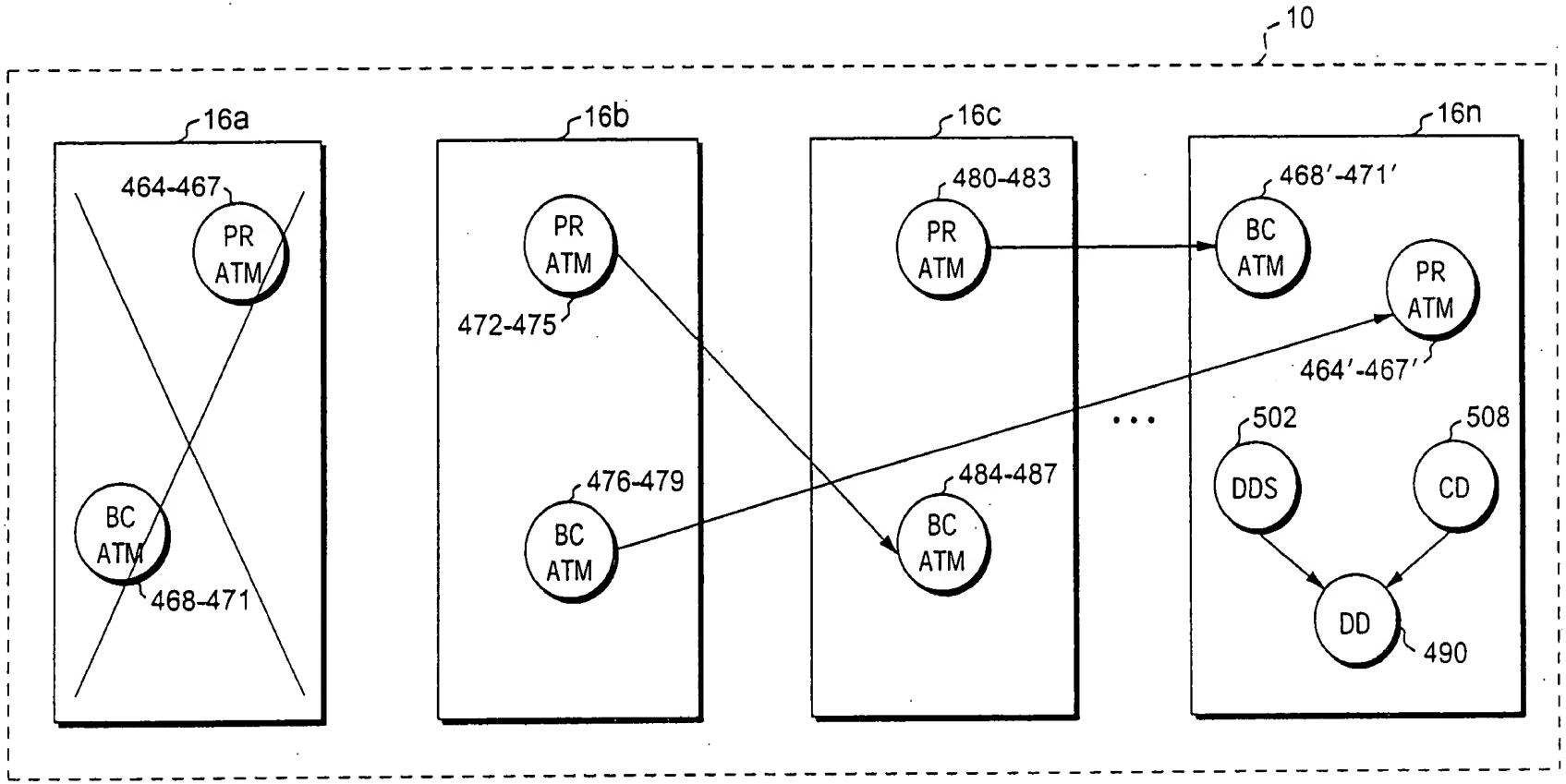

10
16a
16b
16c
16n
464-467
PR ATM
BC ATM
468-471
PR ATM
472-475
BC ATM
476-479
480-483
PR ATM
BC ATM
484-487
468'-471'
BC ATM
PR ATM
464'-467'
502
DDS
508
CD
DD
490

FIG. 33B

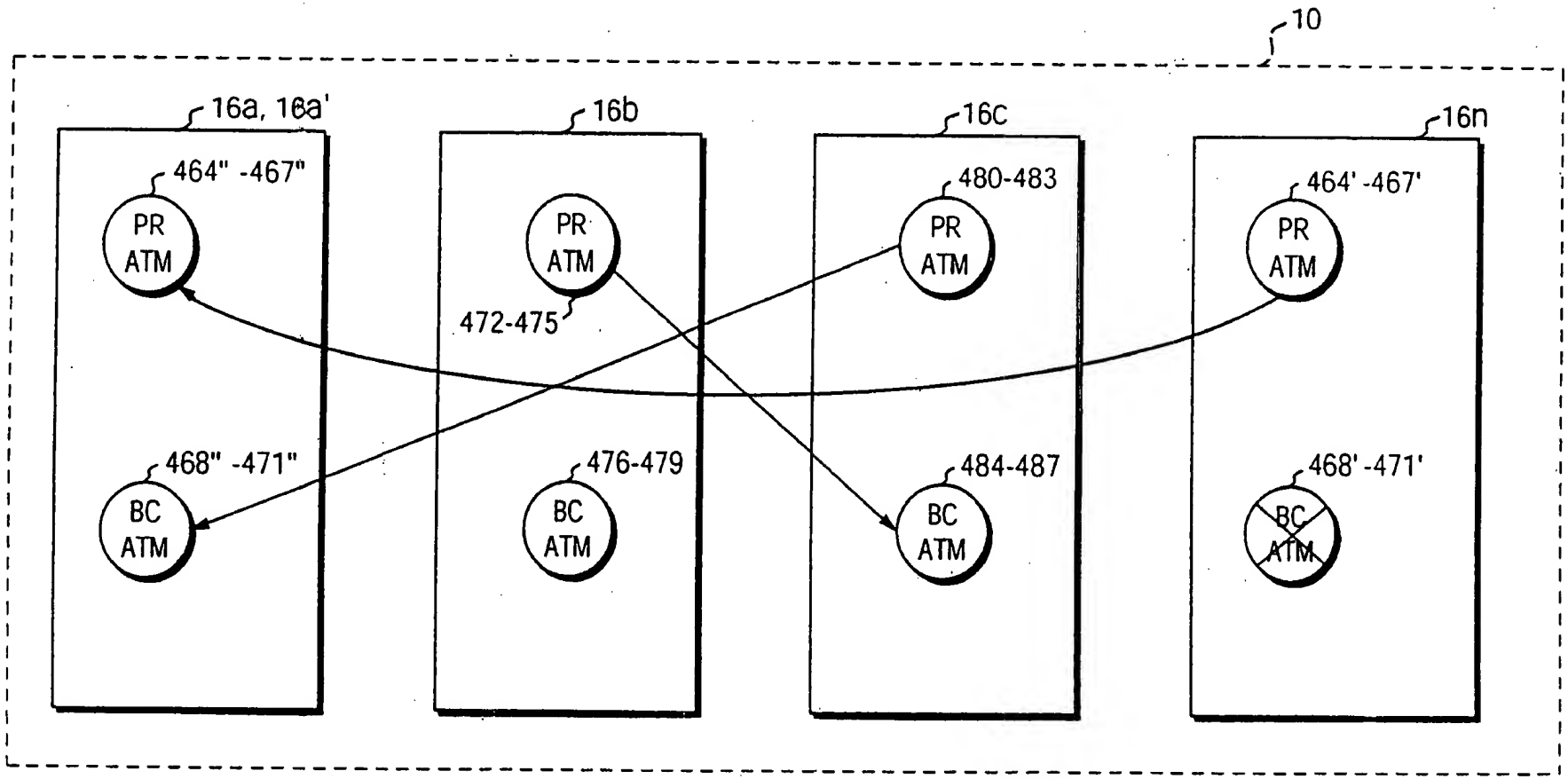

10
16a, 16a'
16b
16c
16n
464" -467"
PR ATM
472-475
480-483
464' -467'
468" -471"
BC ATM
476-479
484-487
468' -471'

FIG. 33C

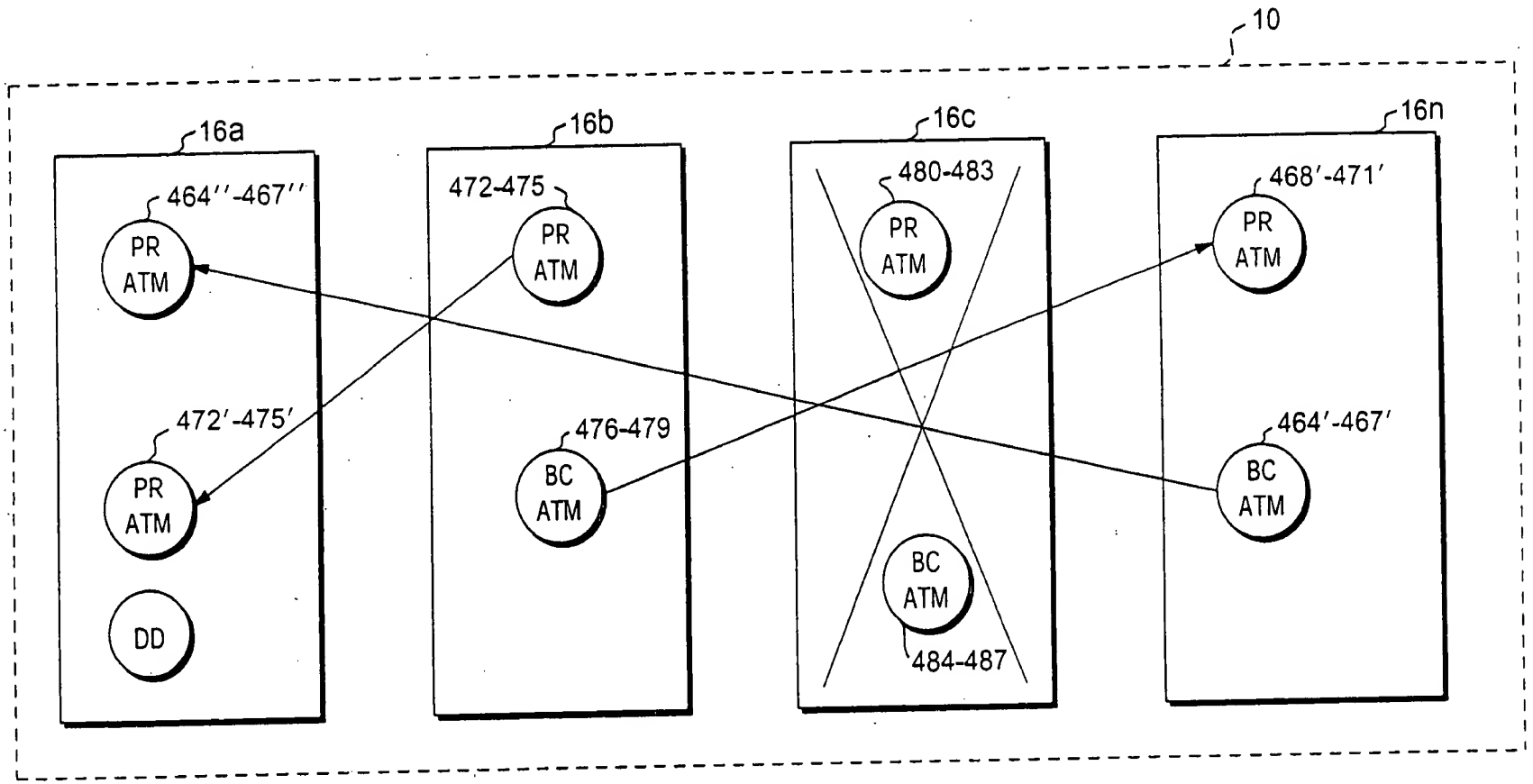

10
16a
16b
16c
16n
464''-467''
PR ATM
472-475
PR ATM
480-483
PR ATM
468'-471'
PR ATM
472'-475'
PR ATM
476-479
BC ATM
BC ATM
484-487
464'-467'
BC ATM
DD

FIG. 33D

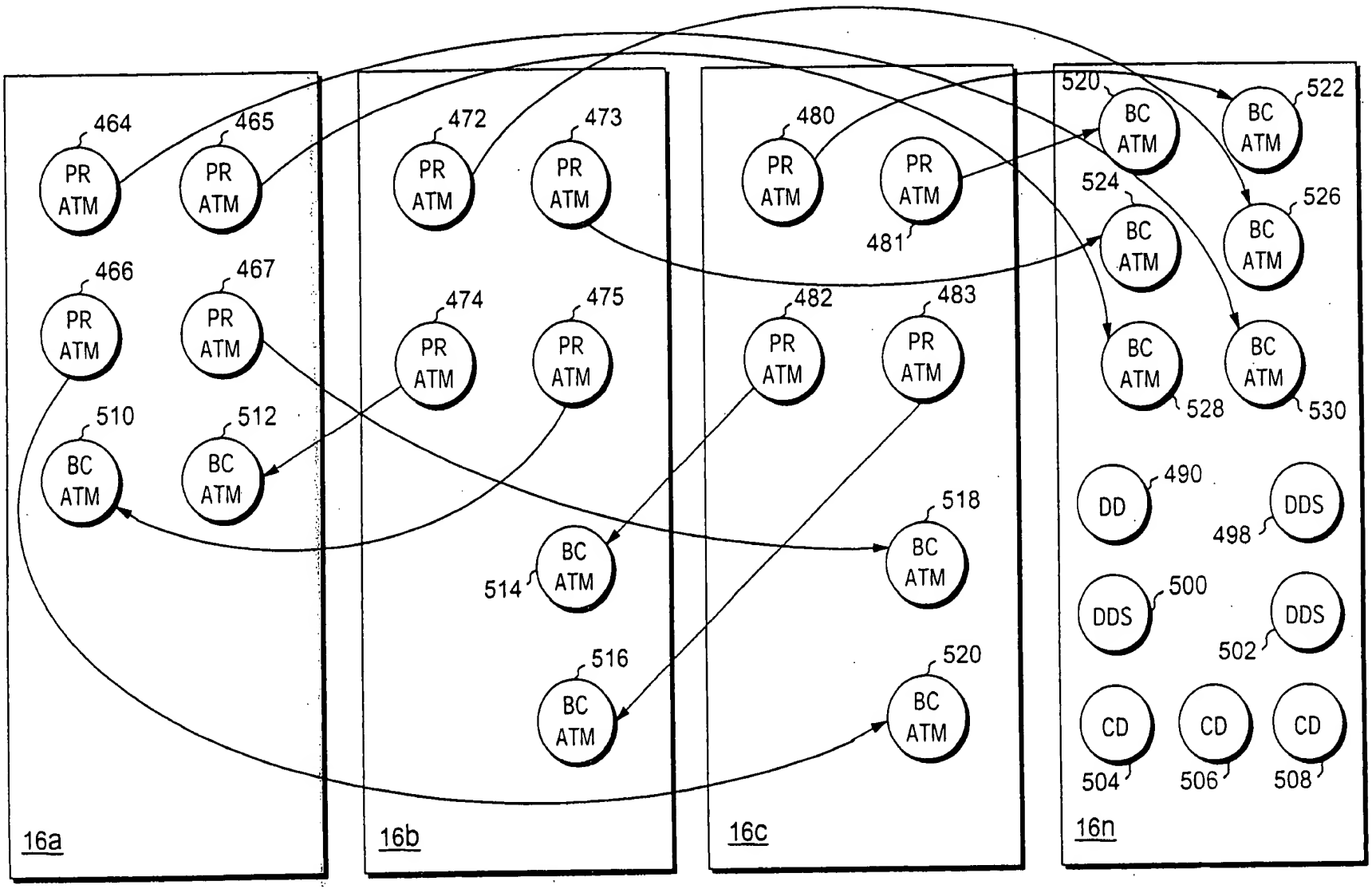

464
PR ATM
465
PR ATM
466
PR ATM
467
PR ATM
510
BC ATM
512
BC ATM
16a
472
PR ATM
473
PR ATM
474
PR ATM
475
PR ATM
514
BC ATM
516
BC ATM
16b
480
PR ATM
481
PR ATM
482
PR ATM
483
PR ATM
518
BC ATM
520
BC ATM
16c
520
BC ATM
522
BC ATM
524
BC ATM
526
BC ATM
528
BC ATM
530
BC ATM
490
DD
498
DDS
500
DDS
502
DDS
504
CD
506
CD
508
CD
16n

FIG. 34A

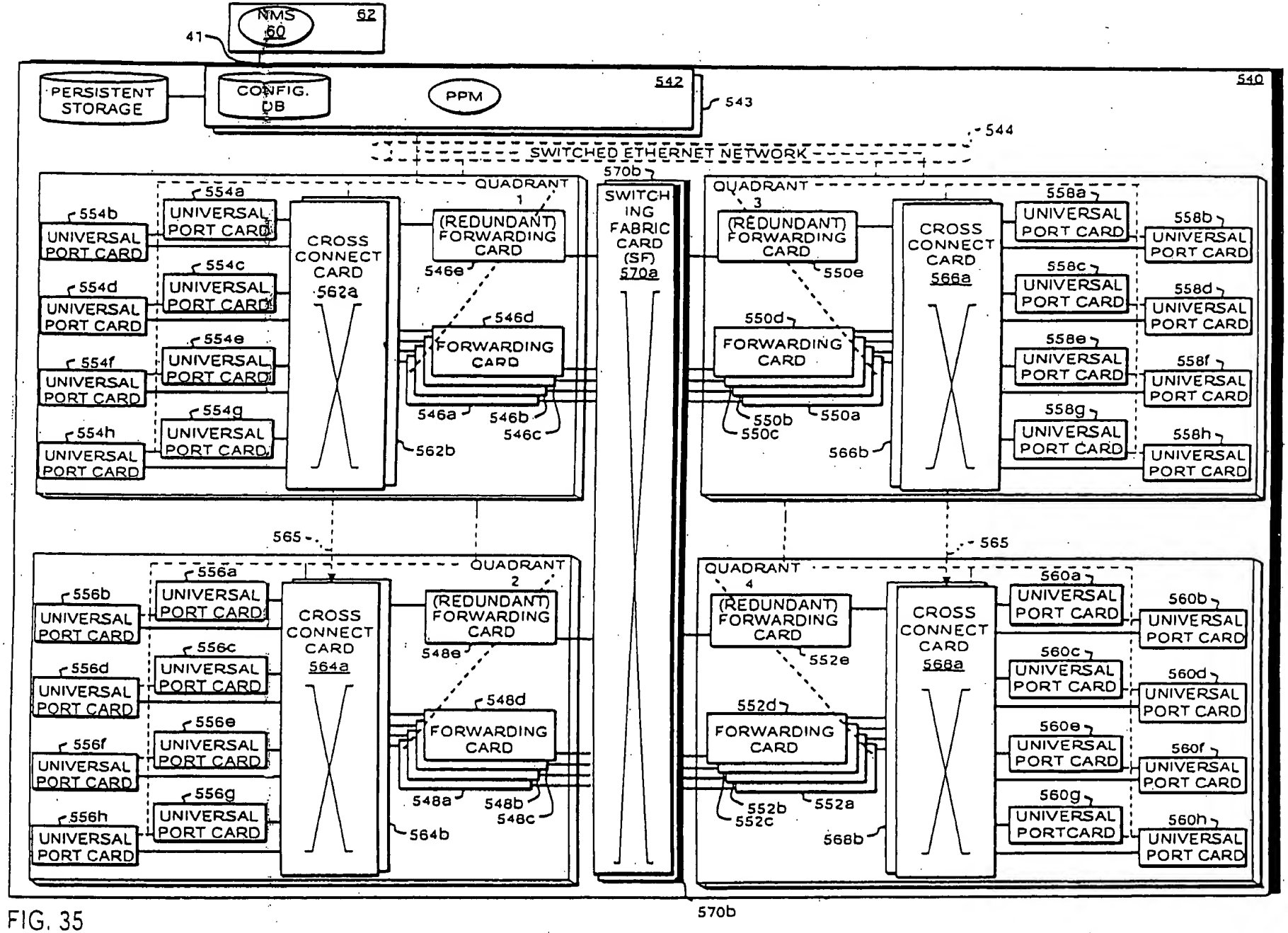

NMS 60
62
41
PERSISTENT STORAGE
CONFIG. DB
PPM
542
543
540
544
SWITCHED ETHERNET NETWORK
570b
SWITCHING FABRIC CARD (SF) 570a
QUADRANT 1
QUADRANT 2
QUADRANT 3
QUADRANT 4
554a
554b
554c
554d
554e
554f
554g
554h
UNIVERSAL PORT CARD
CROSS CONNECT CARD 562a
562b
(REDUNDANT) FORWARDING CARD
546e
FORWARDING CARD
546d
546a
546b
546c
556a
556b
556c
556d
556e
556f
556g
556h
CROSS CONNECT CARD 564a
564b
548e
548d
548a
548b
548c
565
(REDUNDANT) FORWARDING CARD
550e
FORWARDING CARD
550d
550b
550c
550a
CROSS CONNECT CARD 566a
566b
558a
558b
558c
558d
558e
558f
558g
558h
552e
552d
552b
552c
552a
CROSS CONNECT CARD 568a
568b
560a
560b
560c
560d
560e
560f
560g
560h
UNIVERSAL PORTCARD
570b

FIG. 35

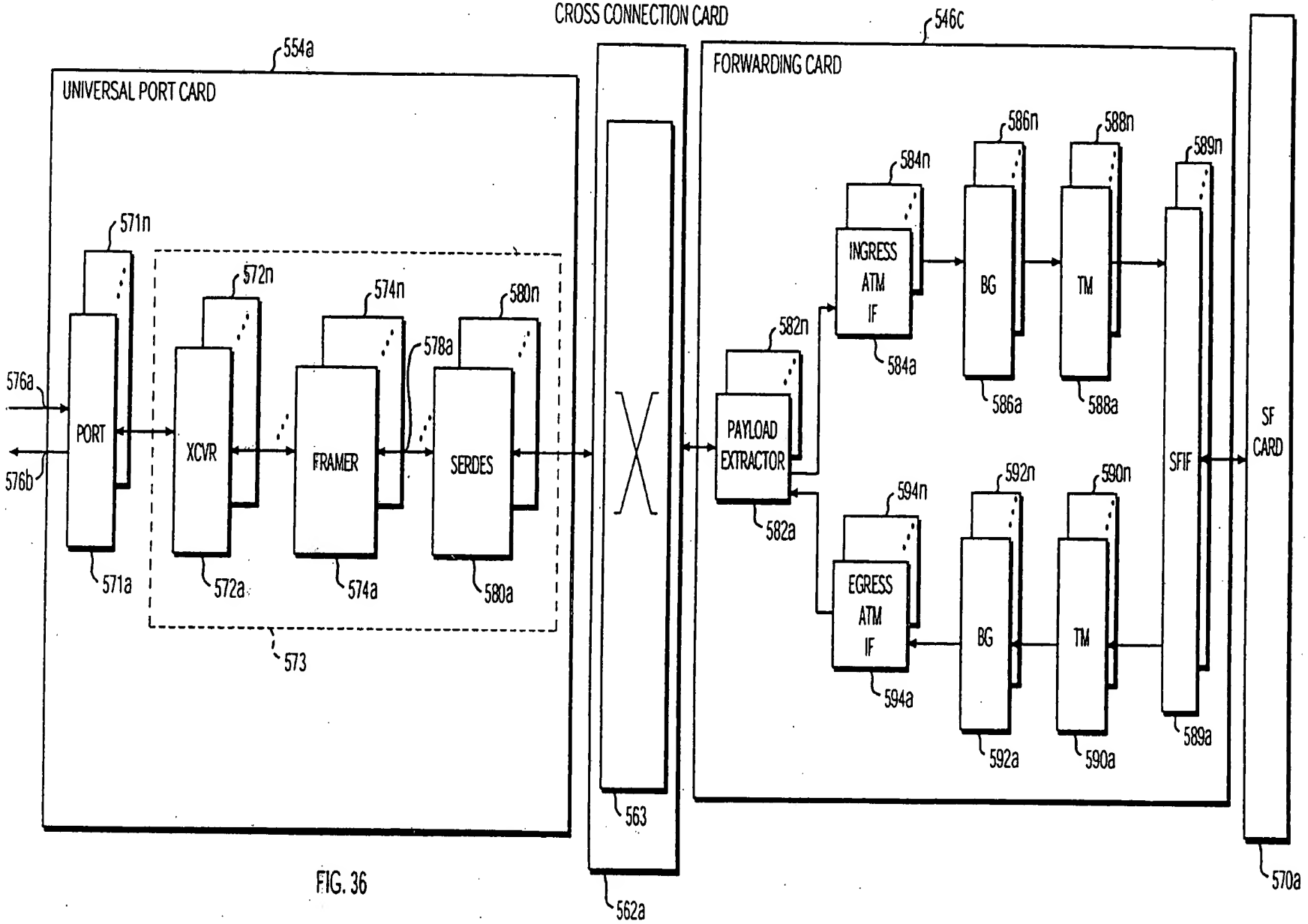

CROSS CONNECTION CARD
554a
UNIVERSAL PORT CARD
546c
FORWARDING CARD
571n
572n
574n
578a
580n
576a
576b
PORT
XCVR
FRAMER
SERDES
571a
572a
574a
580a
573
563
562a
582n
PAYLOAD EXTRACTOR
582a
584n
INGRESS ATM IF
584a
586n
BG
586a
588n
TM
588a
589n
SFIF
589a
SF CARD
570a
594n
EGRESS ATM IF
594a
592n
BG
592a
590n
TM
590a

FIG. 36

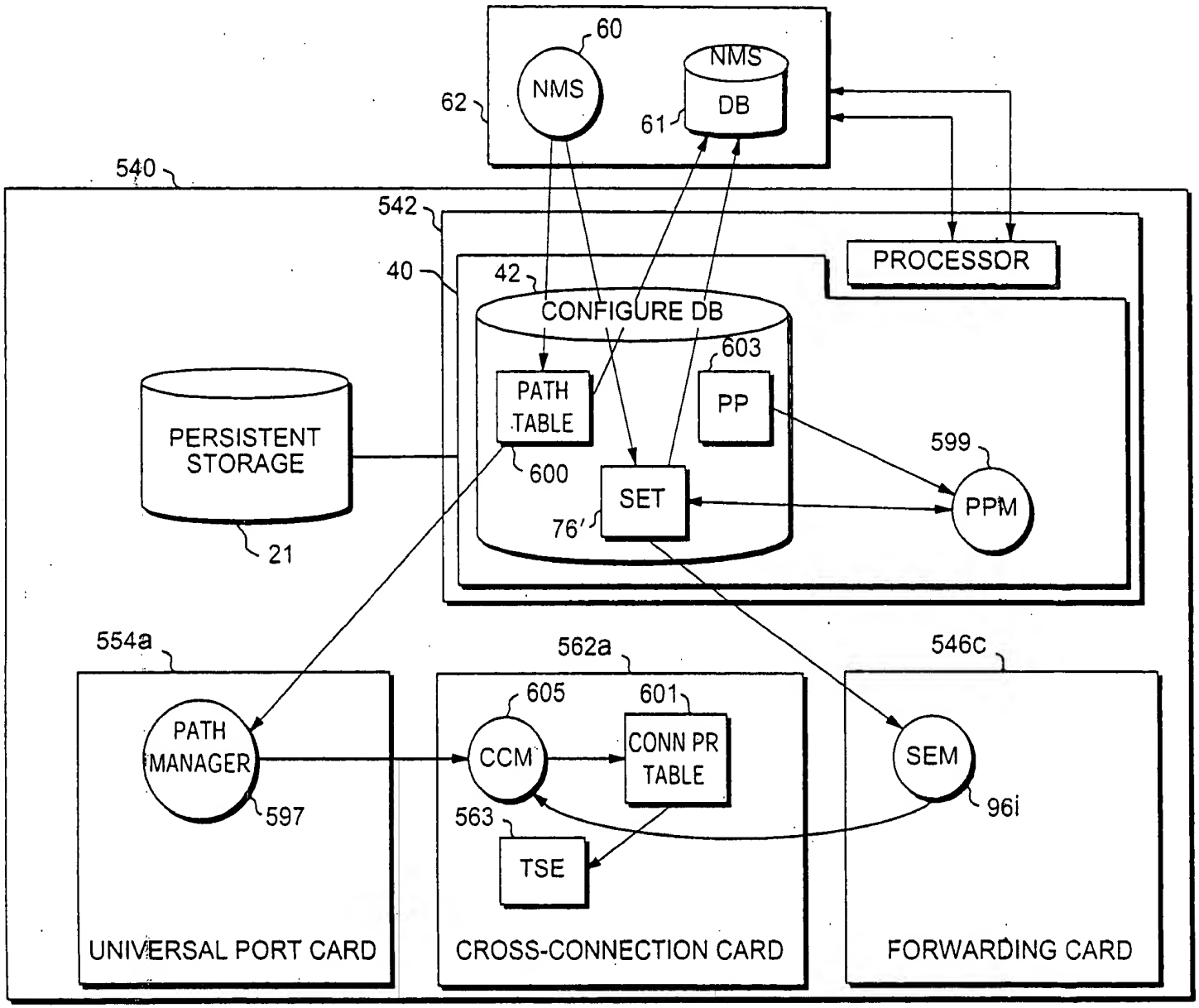

60
NMS
NMS
DB
62
61
540
542
PROCESSOR
40
42
CONFIGURE DB
603
PATH
TABLE
PP
PERSISTENT
STORAGE
599
600
SET
PPM
76'
21
554a
562a
546c
605
601
PATH
MANAGER
CCM
CONN PR
TABLE
SEM
597
96i
563
TSE
UNIVERSAL PORT CARD
CROSS-CONNECTION CARD
FORWARDING CARD

FIG. 37

PATH TABLE 600

602

PATH LID	UP PORT LID	TIME SLOT	# OF TIME SLOTS	...
1666	1231	4	3	
⋮	⋮	⋮	⋮	⋮

FIG. 38

SERVICE END POINT TABLE 76'

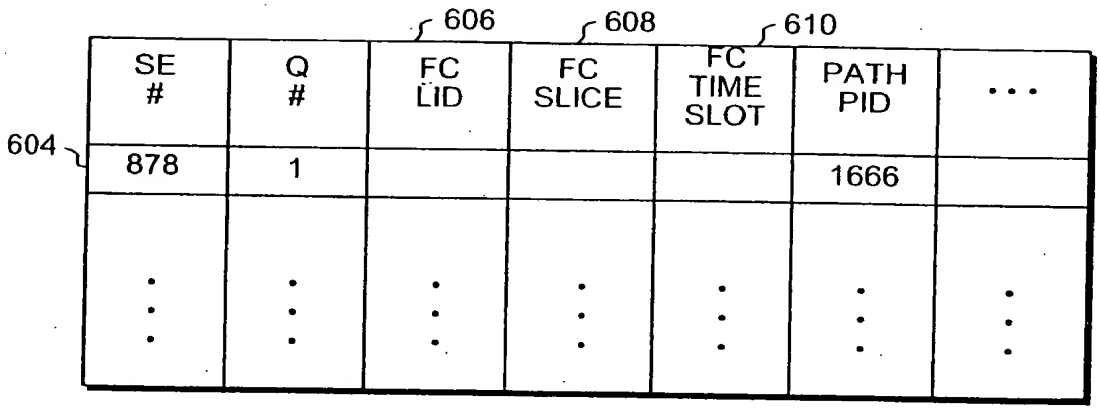


FIG. 39

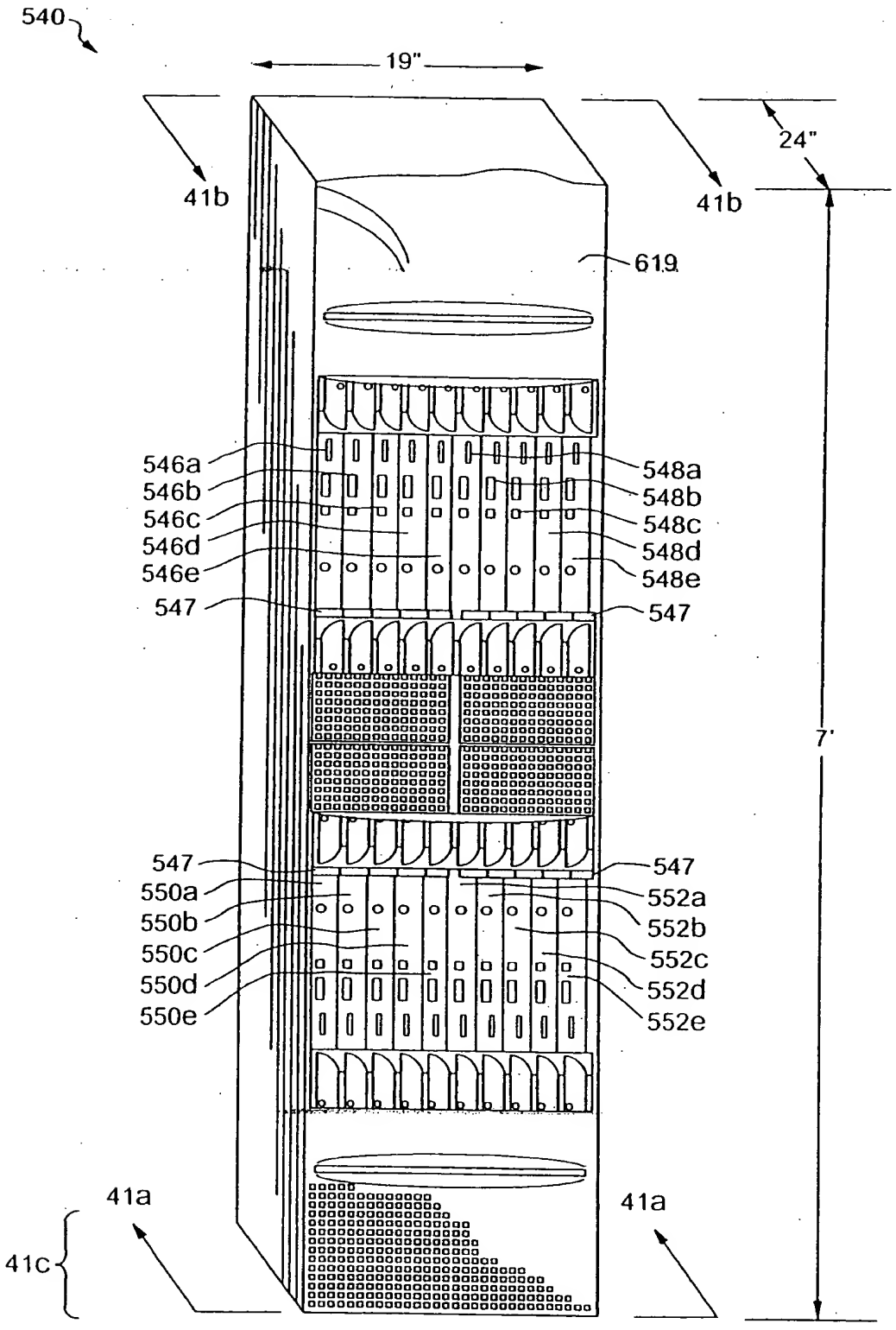

540
19"
24"
41b
41b
619
546a
546b
546c
546d
546e
547
548a
548b
548c
548d
548e
547
7'
547
547
550a
550b
550c
550d
550e
552a
552b
552c
552d
552e
41a
41a
41c

FIG. 40

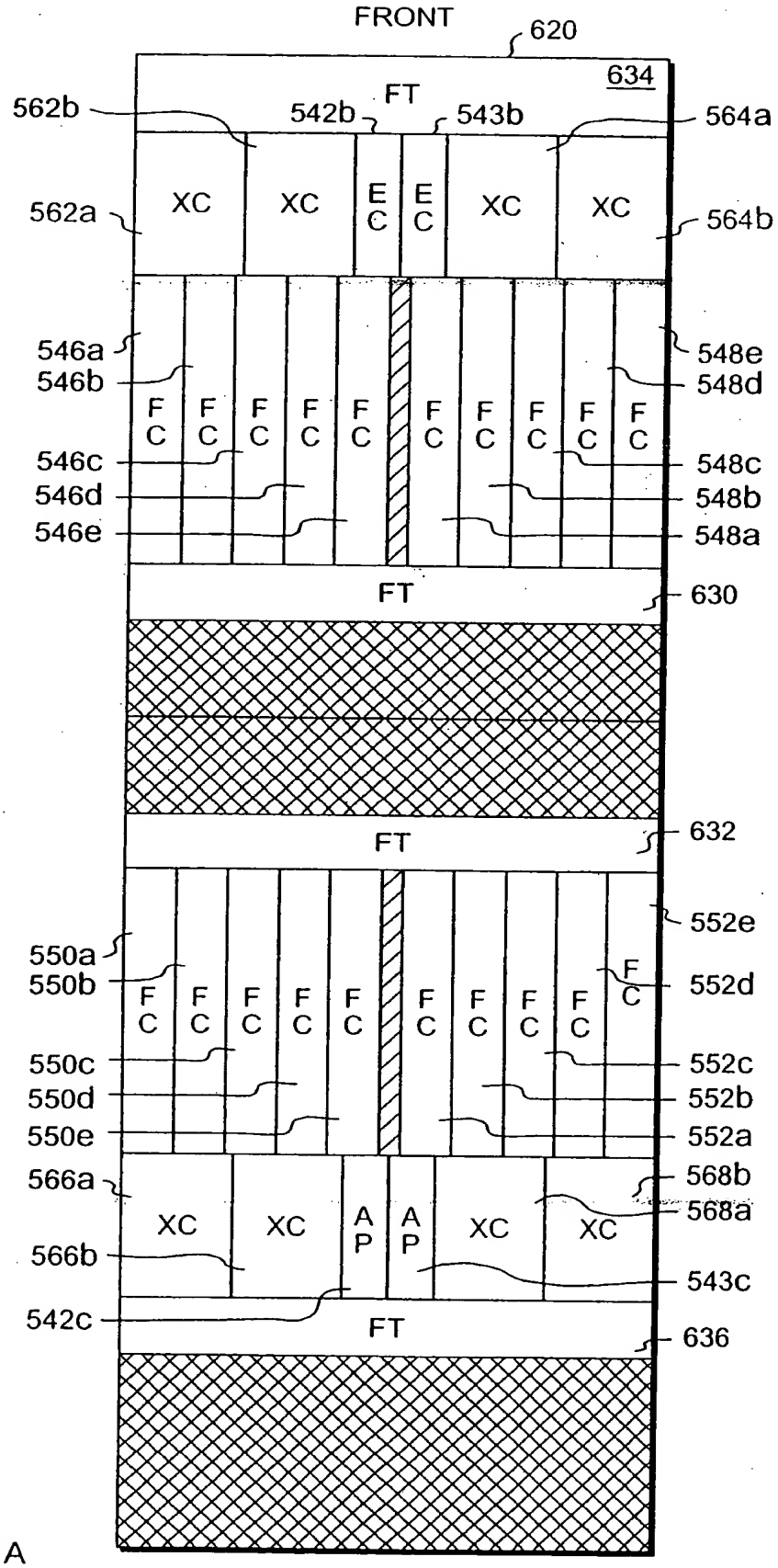

FRONT
620
634
FT
562b
542b
543b
564a
XC
XC
EC
EC
XC
XC
562a
564b
546a
546b
548e
548d
FC
546c
546d
546e
548c
548b
548a
FT
630
FT
632
552e
550a
550b
552d
550c
550d
550e
552c
552b
552a
566a
568b
568a
XC
AP
566b
543c
542c
FT
636

FIG. 41A

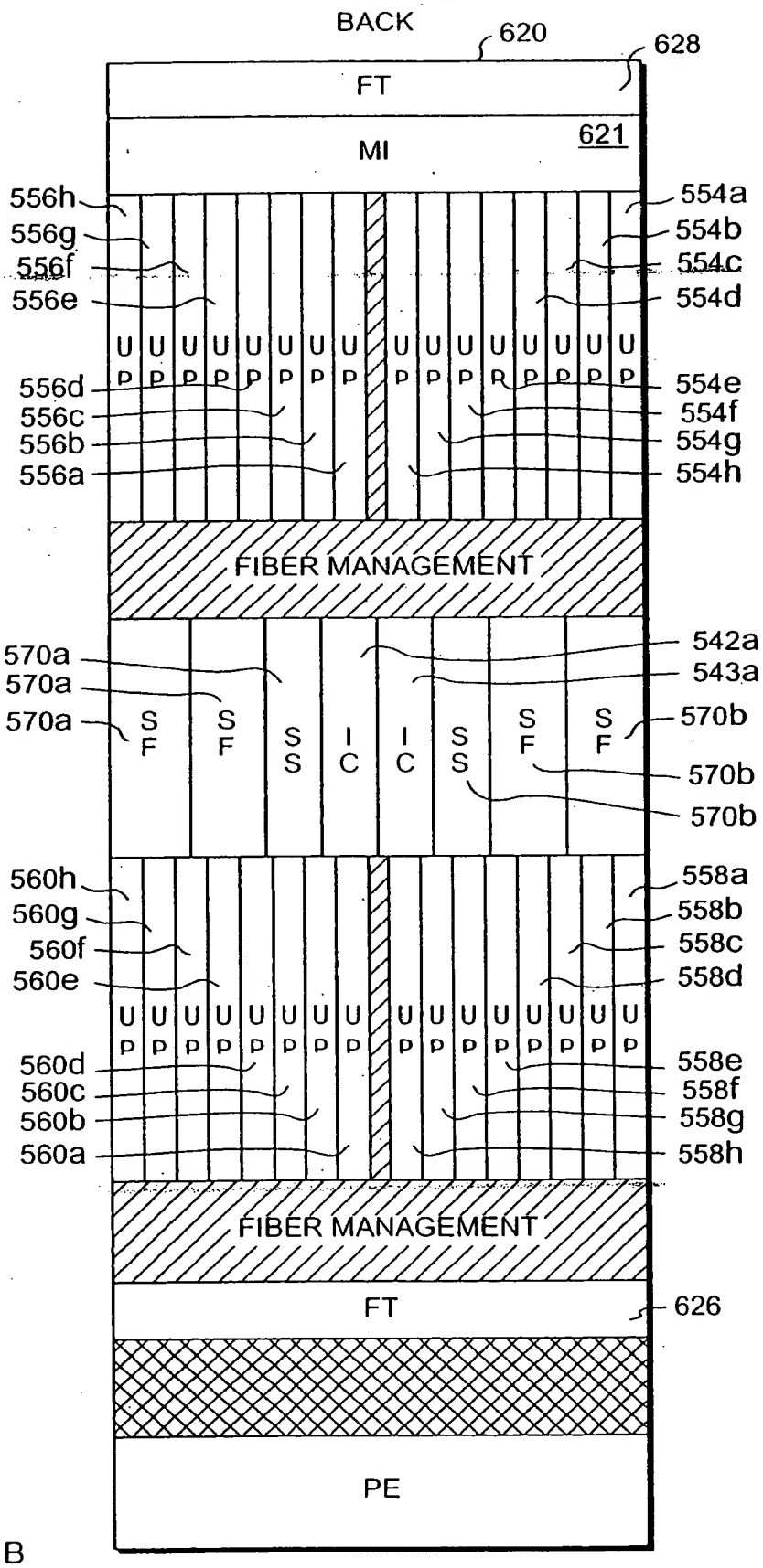

BACK
620
628
FT
MI
621
556h
556g
556f
556e
554a
554b
554c
554d
UP
556d
556c
556b
556a
554e
554f
554g
554h
FIBER MANAGEMENT
570a
570a
570a
542a
543a
SF
SS
IC
570b
570b
570b
560h
560g
560f
560e
558a
558b
558c
558d
560d
560c
560b
560a
558e
558f
558g
558h
FIBER MANAGEMENT
FT
626
PE

FIG. 41B

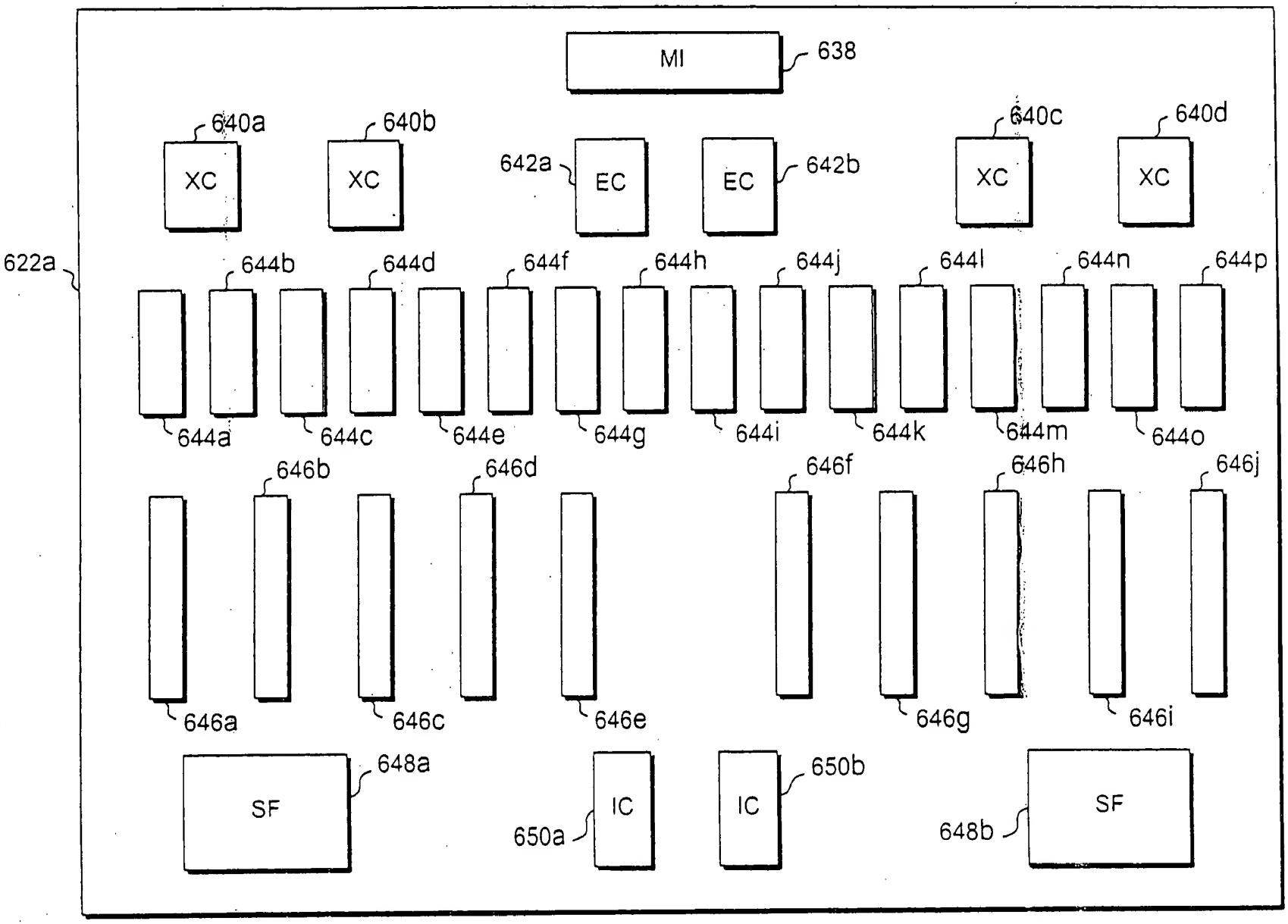

MI
638
640a
640b
640c
640d
XC
XC
XC
XC
642a
EC
EC
642b
622a
644b
644d
644f
644h
644j
644l
644n
644p
644a
644c
644e
644g
644i
644k
644m
644o
646b
646d
646f
646h
646j
646a
646c
646e
646g
646i
SF
648a
IC
650a
IC
650b
SF
648b

FIG. 42A

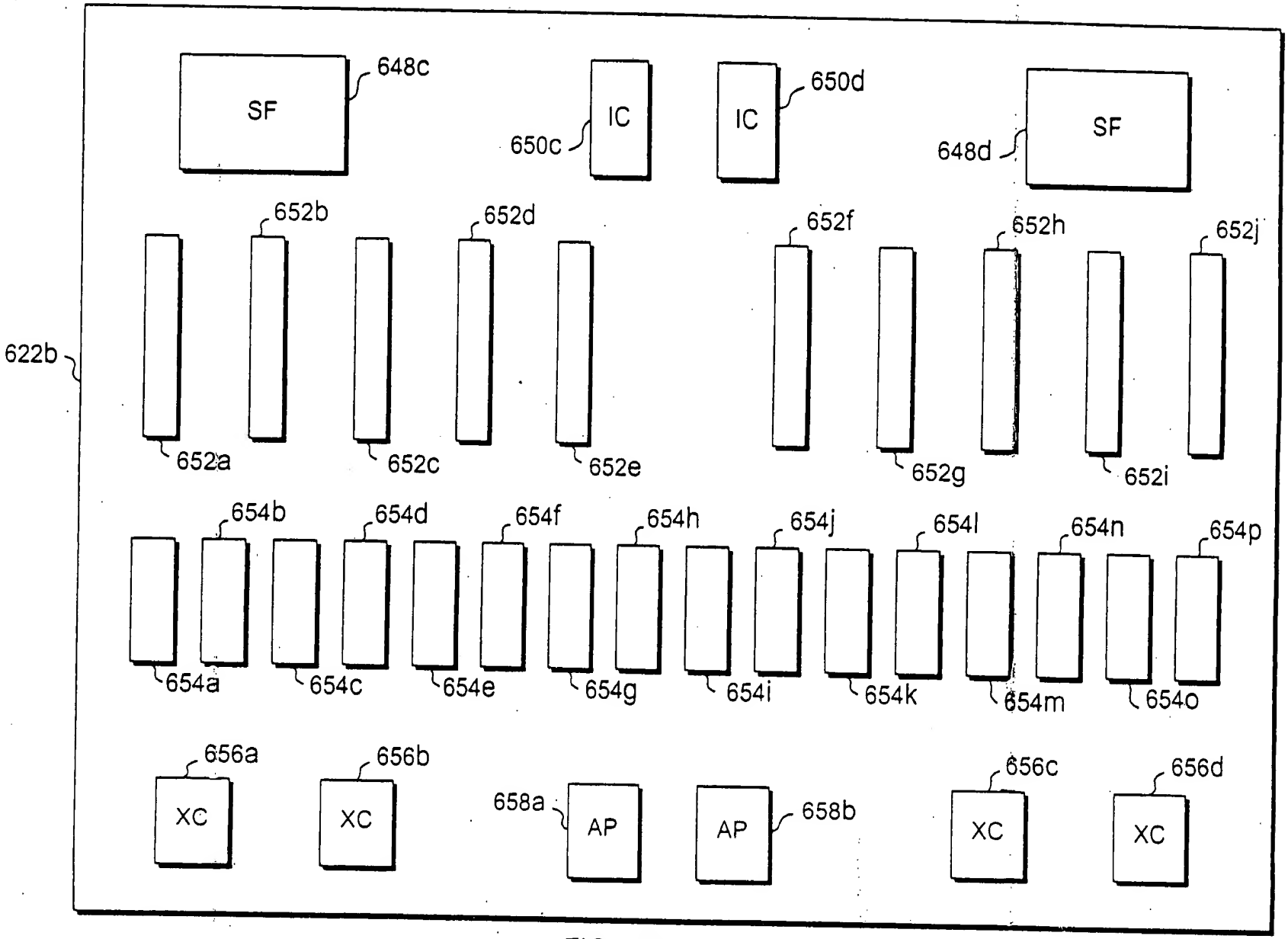

622b
SF
648c
IC
650c
IC
650d
SF
648d
652a
652b
652c
652d
652e
652f
652g
652h
652i
652j
654a
654b
654c
654d
654e
654f
654g
654h
654i
654j
654k
654l
654m
654n
654o
654p
XC
656a
XC
656b
AP
658a
AP
658b
XC
656c
XC
656d

FIG. 42B

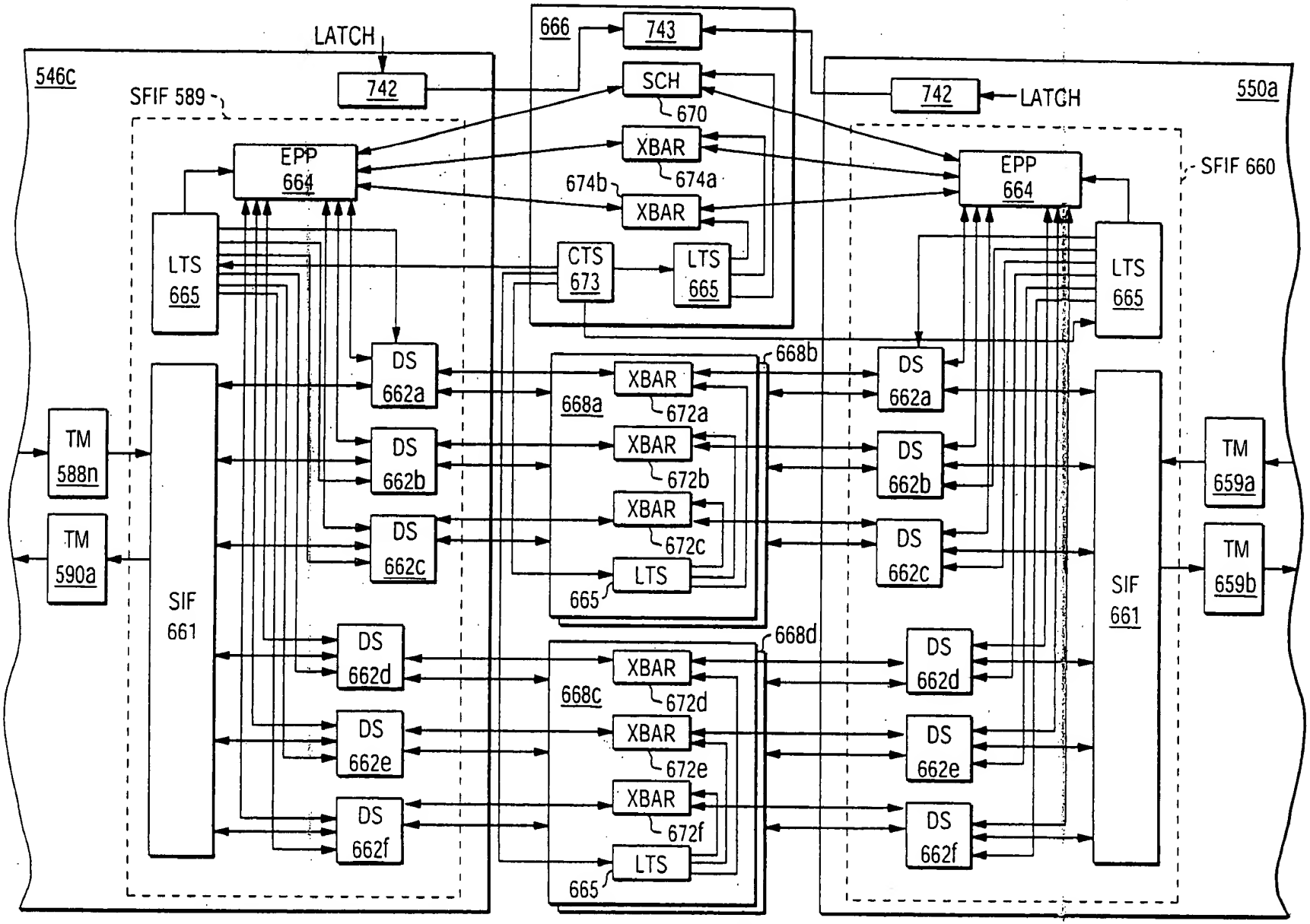

546c
SFIF 589
LATCH
742
666
743
SCH
670
XBAR
674a
674b
XBAR
CTS
673
LTS
665
EPP
664
LTS
665
742
LATCH
550a
SFIF 660
EPP
664
LTS
665
668b
DS
662a
XBAR
672a
668a
XBAR
672b
XBAR
672c
LTS
665
DS
662a
DS
662b
DS
662c
TM
588n
TM
590a
SIF
661
DS
662b
DS
662c
SIF
661
TM
659a
TM
659b
668d
DS
662d
XBAR
672d
668c
XBAR
672e
XBAR
672f
LTS
665
DS
662d
DS
662e
DS
662f
DS
662e
DS
662f

FIG. 43

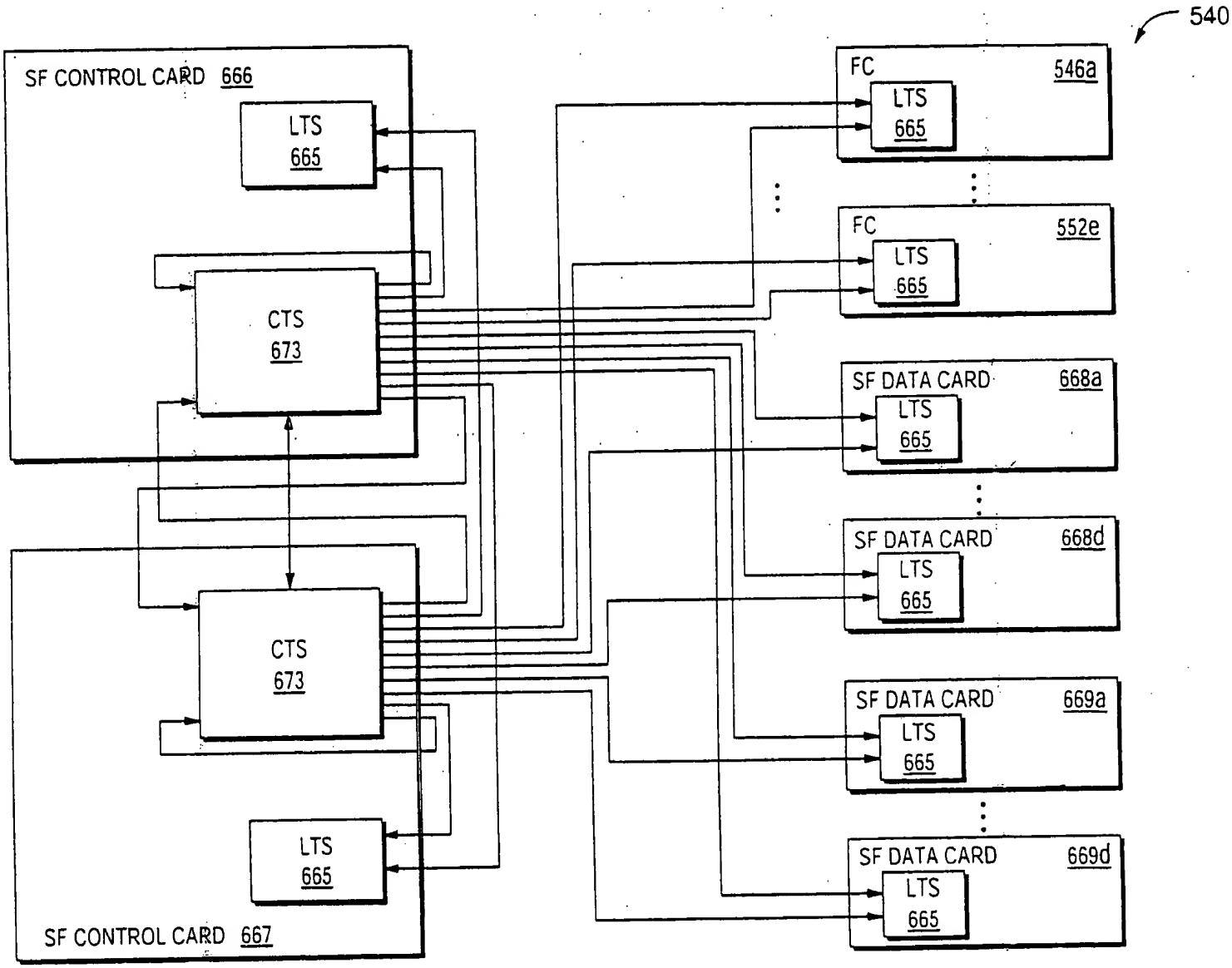

540
SF CONTROL CARD 666
LTS 665
CTS 673
CTS 673
LTS 665
SF CONTROL CARD 667
FC 546a
LTS 665
FC 552e
LTS 665
SF DATA CARD 668a
LTS 665
SF DATA CARD 668d
LTS 665
SF DATA CARD 669a
LTS 665
SF DATA CARD 669d
LTS 665

FIG. 44

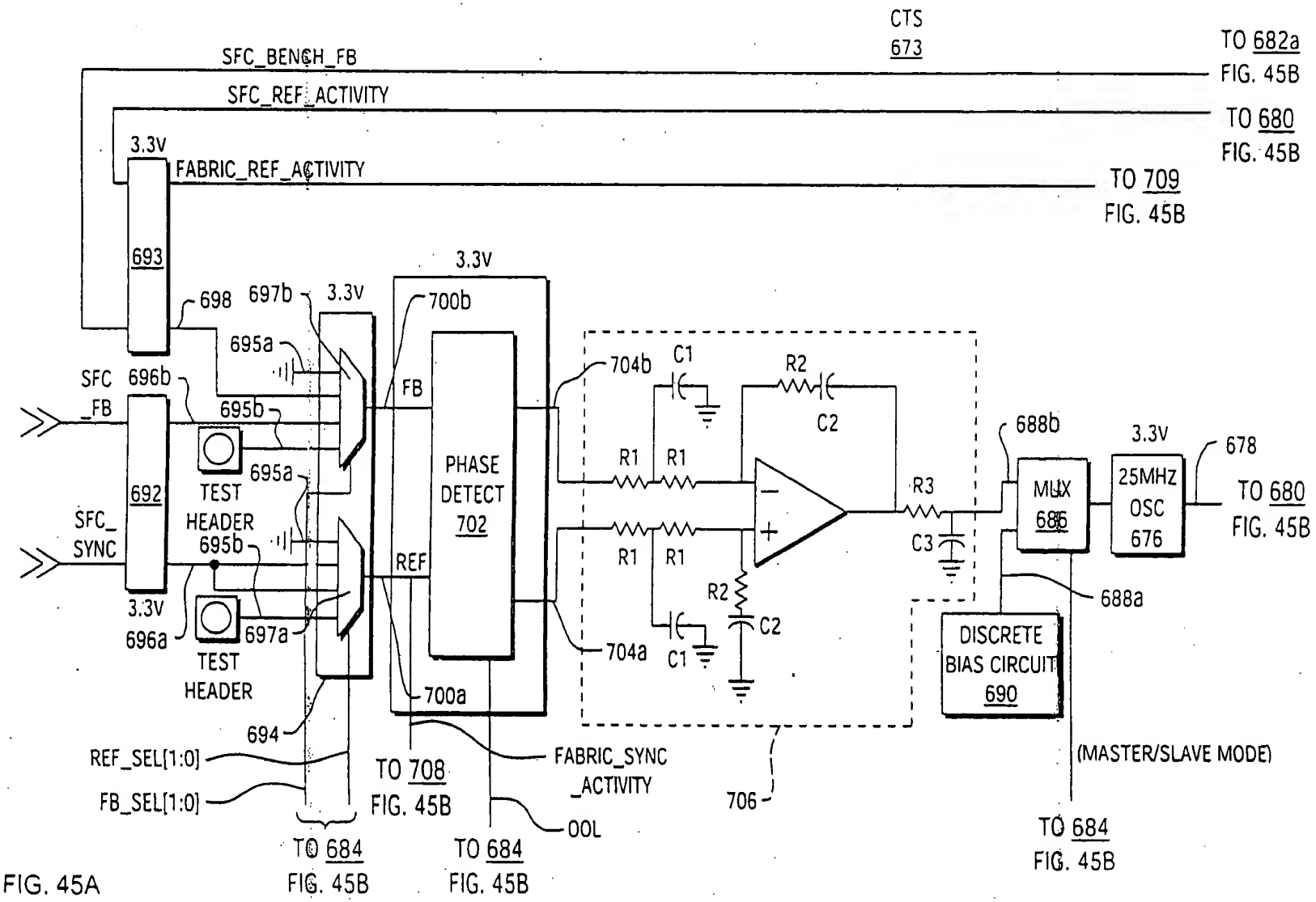

CTS
673
SFC_BENCH_FB
TO 682a
FIG. 45B
SFC_REF_ACTIVITY
TO 680
FIG. 45B
3.3V
FABRIC_REF_ACTIVITY
TO 709
FIG. 45B
693
698
697b
3.3V
3.3V
700b
695a
696b
SFC
_FB
695b
692
TEST
HEADER
695a
SFC_
SYNC
695b
3.3V
696a
697a
TEST
HEADER
694
FB
REF
PHASE
DETECT
702
700a
704b
704a
C1
R2
C2
R1
R1
R1
R1
R2
C2
C1
R3
C3
688b
3.3V
MUX
685
25MHZ
OSC
676
678
TO 680
FIG. 45B
688a
DISCRETE
BIAS CIRCUIT
690
REF_SEL[1:0]
FB_SEL[1:0]
TO 708
FIG. 45B
FABRIC_SYNC
_ACTIVITY
OOL
706
(MASTER/SLAVE MODE)
TO 684
FIG. 45B
TO 684
FIG. 45B
TO 684
FIG. 45B

FIG. 45A

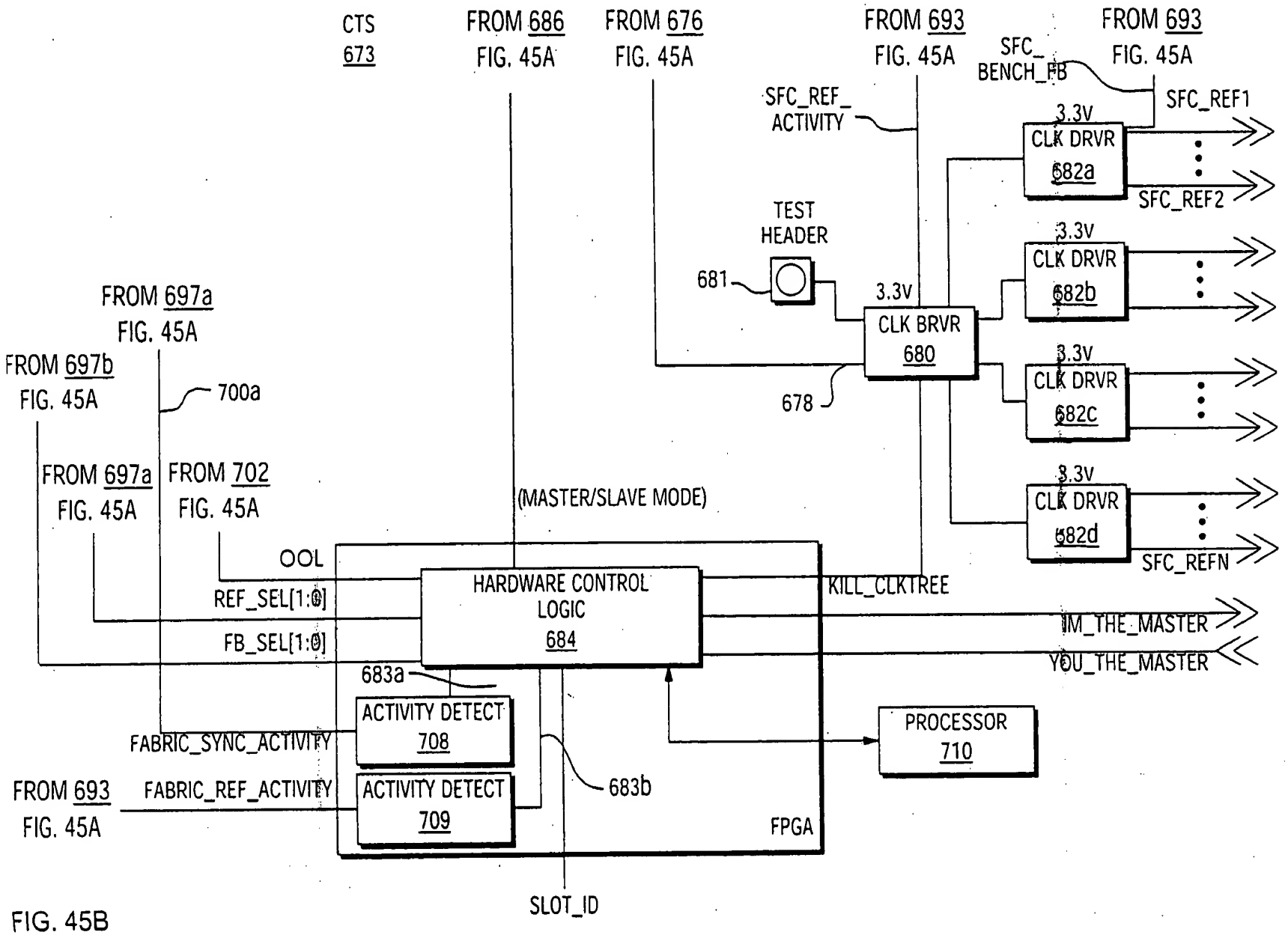

CTS
673
FROM 686
FIG. 45A
FROM 676
FIG. 45A
FROM 693
FIG. 45A
FROM 693
FIG. 45A
SFC_
BENCH_FB
SFC_REF1
SFC_REF_
ACTIVITY
3.3V
CLK DRVR
682a
SFC_REF2
TEST
HEADER
681
3.3V
CLK DRVR
682b
3.3V
CLK BRVR
680
678
3.3V
CLK DRVR
682c
3.3V
CLK DRVR
682d
SFC_REFN
FROM 697a
FIG. 45A
FROM 697b
FIG. 45A
700a
FROM 697a
FIG. 45A
FROM 702
FIG. 45A
(MASTER/SLAVE MODE)
OOL
REF_SEL[1:0]
FB_SEL[1:0]
HARDWARE CONTROL
LOGIC
684
KILL_CLKTREE
IM_THE_MASTER
YOU_THE_MASTER
683a
ACTIVITY DETECT
708
FABRIC_SYNC_ACTIVITY
PROCESSOR
710
FROM 693
FIG. 45A
FABRIC_REF_ACTIVITY
ACTIVITY DETECT
709
683b
FPGA
SLOT_ID

FIG. 45B

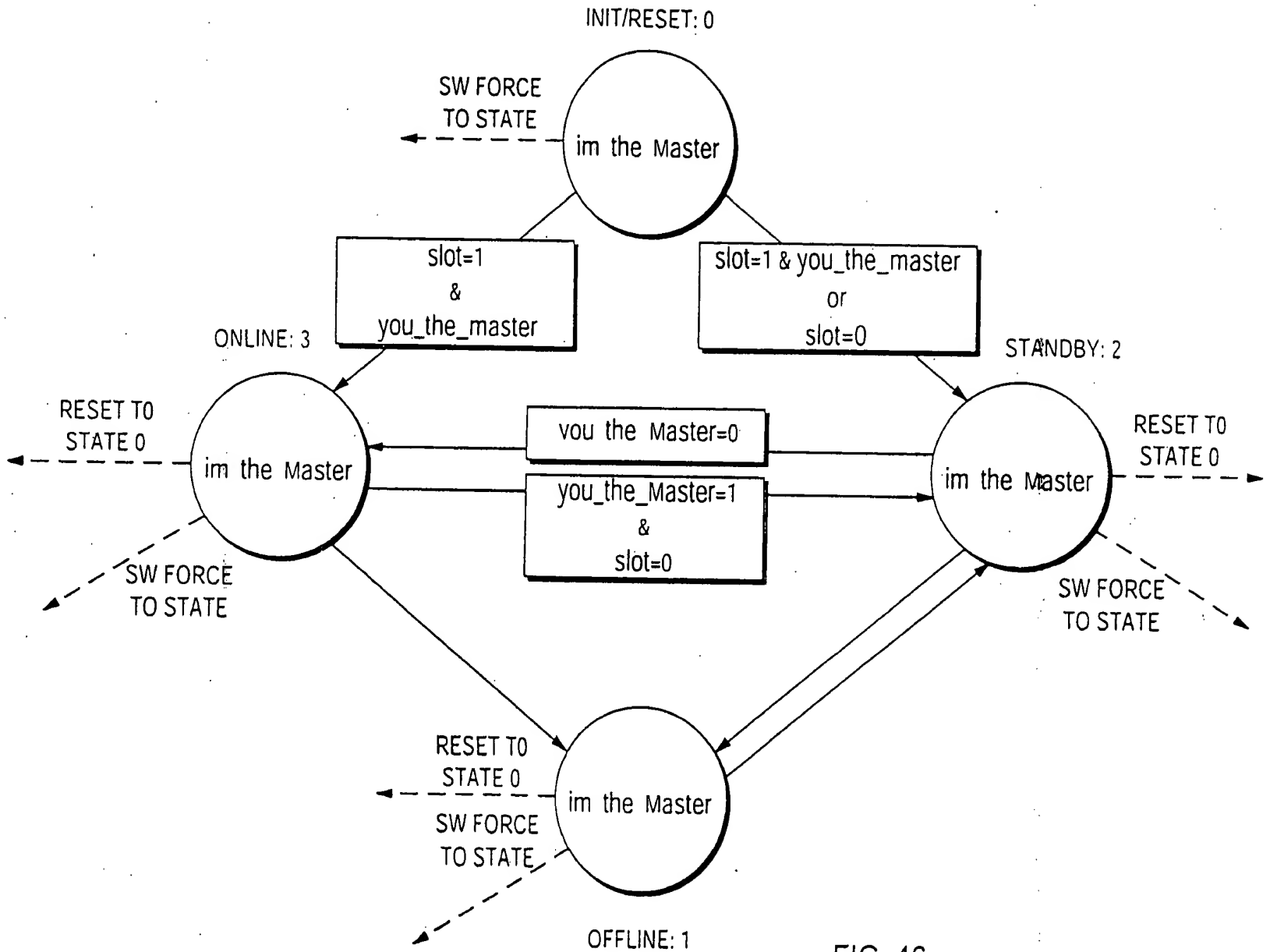

INIT/RESET: 0
SW FORCE
TO STATE
im the Master
slot=1
&
you_the_master
slot=1 & you_the_master
or
slot=0
ONLINE: 3
STANDBY: 2
RESET TO
STATE 0
im the Master
vou the Master=0
you_the_Master=1
&
slot=0
im the Master
RESET TO
STATE 0
SW FORCE
TO STATE
SW FORCE
TO STATE
RESET TO
STATE 0
im the Master
SW FORCE
TO STATE
OFFLINE: 1

FIG. 46

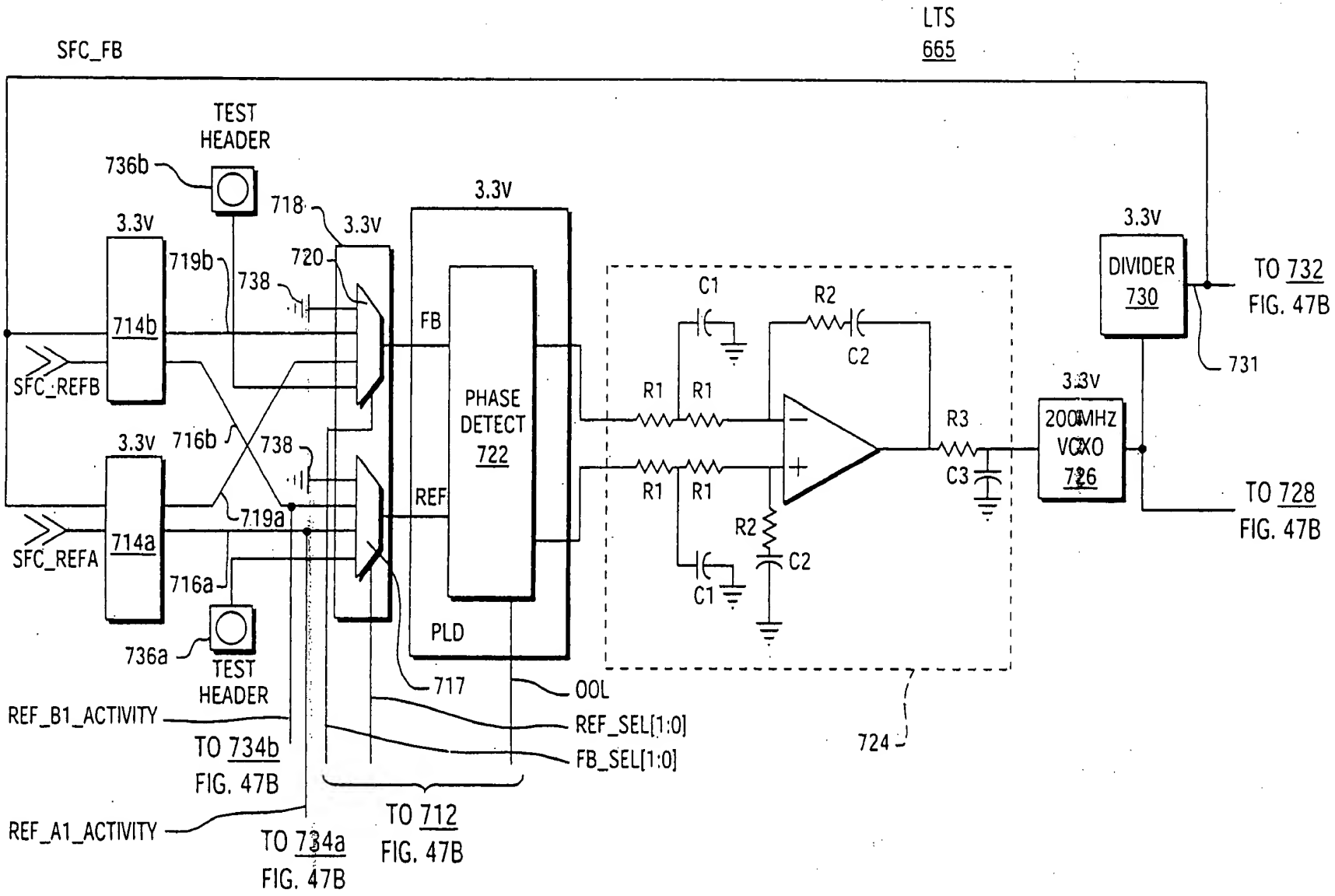

LTS
665
SFC_FB
TEST
HEADER
736b
718
3.3V
3.3V
3.3V
720
719b
738
714b
SFC_REFB
FB
PHASE
DETECT
722
C1
R2
C2
R1
R1
3.3V
716b
738
R3
3.3V
719a
714a
SFC_REFA
REF
R1
R1
C3
R2
C2
716a
C1
PLD
736a
TEST
HEADER
717
OOL
REF_B1_ACTIVITY
REF_SEL[1:0]
FB_SEL[1:0]
724
TO 734b
FIG. 47B
REF_A1_ACTIVITY
TO 734a
FIG. 47B
TO 712
FIG. 47B
3.3V
DIVIDER
730
TO 732
FIG. 47B
731
3.3V
200MHZ
VCXO
726
TO 728
FIG. 47B

FIG. 47A

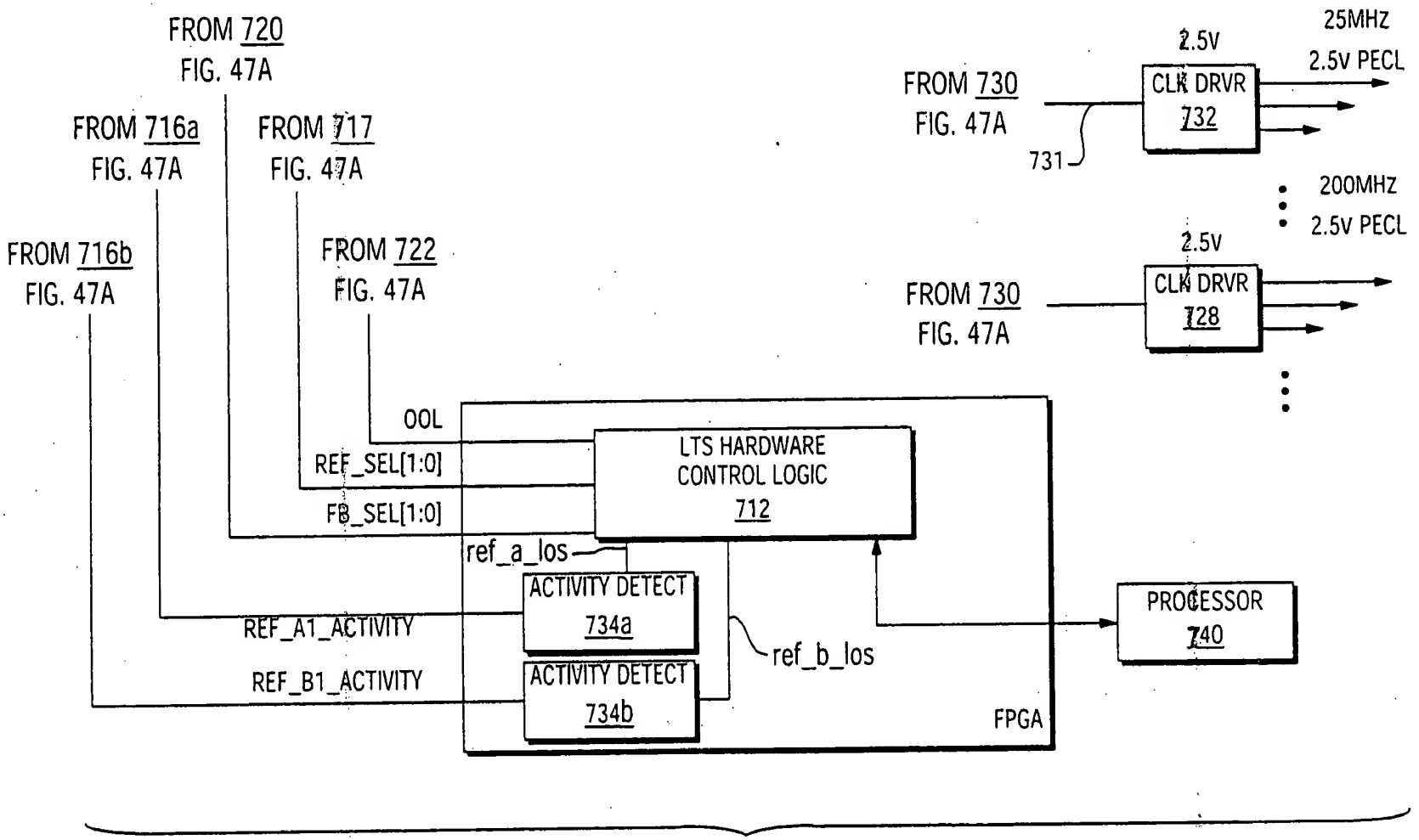

FROM 720
FIG. 47A
FROM 716a
FIG. 47A
FROM 717
FIG. 47A
FROM 716b
FIG. 47A
FROM 722
FIG. 47A
FROM 730
FIG. 47A
2.5v
CLK DRVR
732
731
25MHZ
2.5v PECL
200MHZ
2.5v PECL
FROM 730
FIG. 47A
2.5v
CLK DRVR
728
OOL
REF_SEL[1:0]
FB_SEL[1:0]
LTS HARDWARE
CONTROL LOGIC
712
ref_a_los
ACTIVITY DETECT
734a
REF_A1_ACTIVITY
REF_B1_ACTIVITY
ACTIVITY DETECT
734b
ref_b_los
PROCESSOR
740
FPGA

FIG. 47B

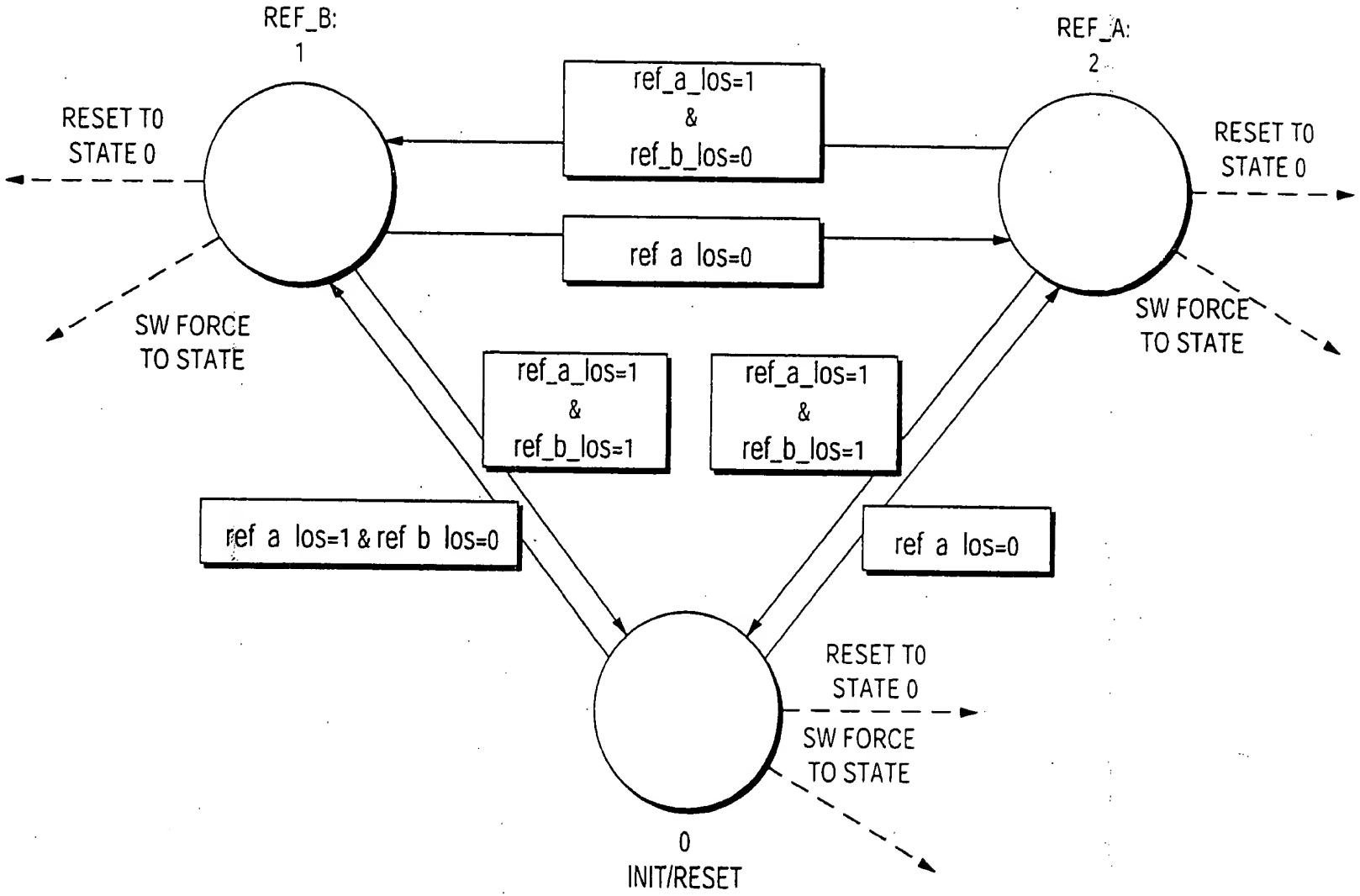

REF_B:
1
REF_A:
2
RESET TO
STATE 0
ref_a_los=1
&
ref_b_los=0
RESET TO
STATE 0
ref a los=0
SW FORCE
TO STATE
SW FORCE
TO STATE
ref_a_los=1
&
ref_b_los=1
ref_a_los=1
&
ref_b_los=1
ref a los=1 & ref b los=0
ref a los=0
RESET TO
STATE 0
SW FORCE
TO STATE
0
INIT/RESET

FIG. 48

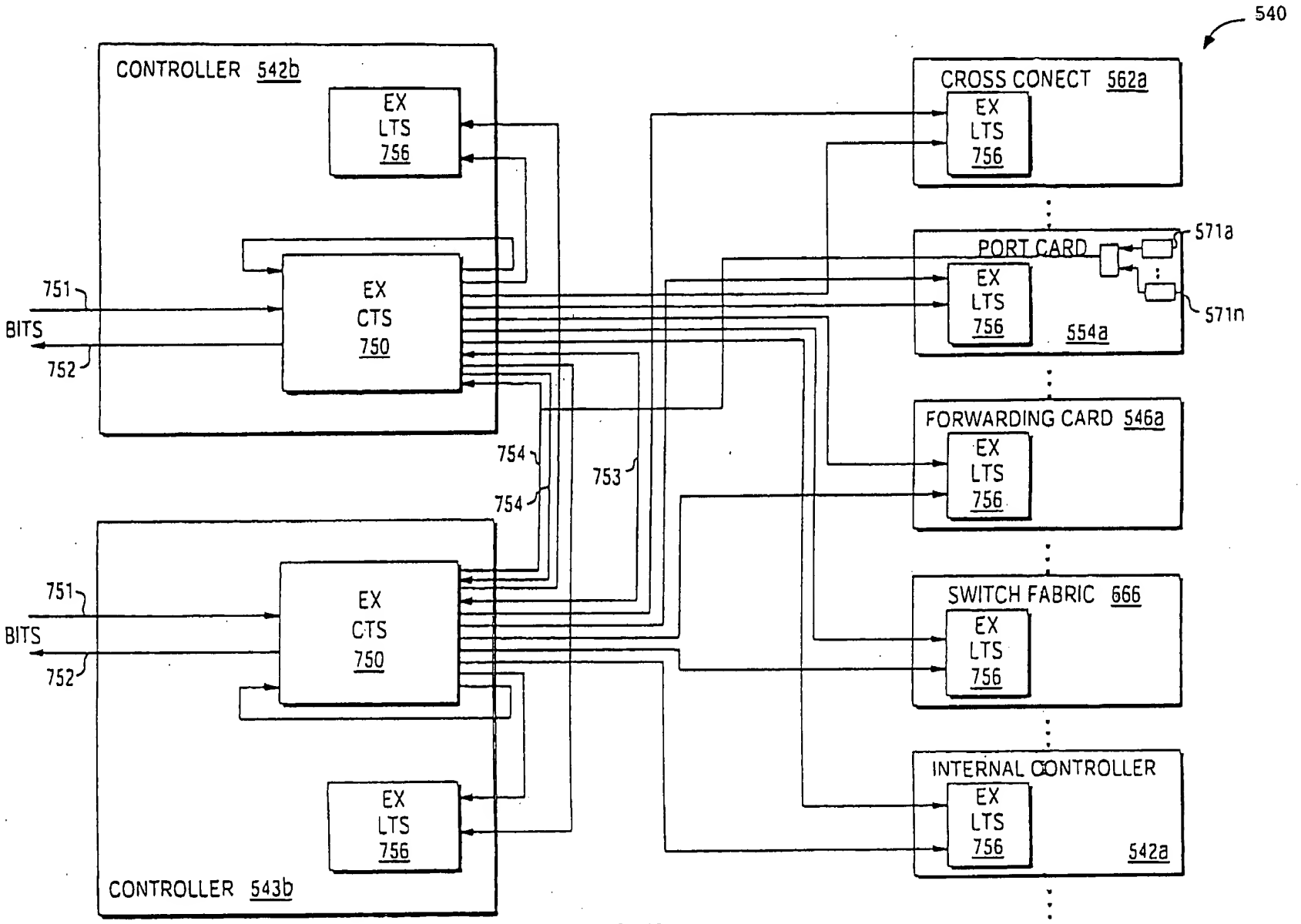

540
CONTROLLER 542b
EX
LTS
756
EX
CTS
750
751
BITS
752
754
754
753
CONTROLLER 543b
EX
CTS
750
751
BITS
752
EX
LTS
756
CROSS CONECT 562a
EX
LTS
756
PORT CARD
571a
571n
EX
LTS
756
554a
FORWARDING CARD 546a
EX
LTS
756
SWITCH FABRIC 666
EX
LTS
756
INTERNAL CONTROLLER
EX
LTS
756
542a

FIG. 49

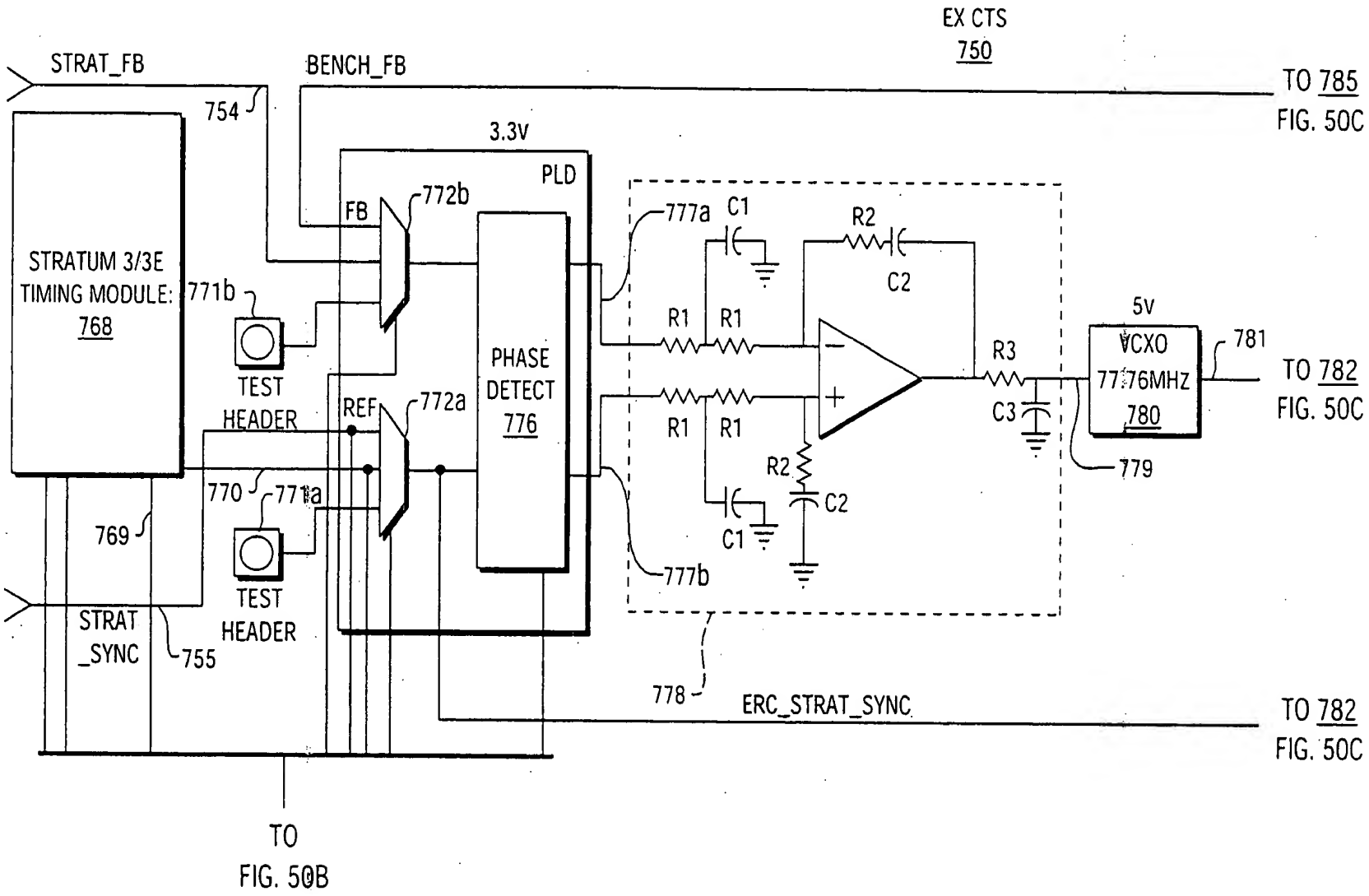

EX CTS
750
STRAT_FB
BENCH_FB
TO 785
FIG. 50C
754
3.3v
PLD
STRATUM 3/3E
TIMING MODULE:
768
FB
772b
771b
TEST
HEADER
REF
772a
PHASE
DETECT
776
770
771a
769
TEST
HEADER
STRAT
_SYNC
755
777a
C1
R2
C2
R1
R1
5v
VCXO
77.76MHZ
780
781
TO 782
FIG. 50C
R3
C3
R1
R1
R2
C2
C1
779
777b
778
ERC_STRAT_SYNC
TO 782
FIG. 50C
TO
FIG. 50B

FIG. 50A

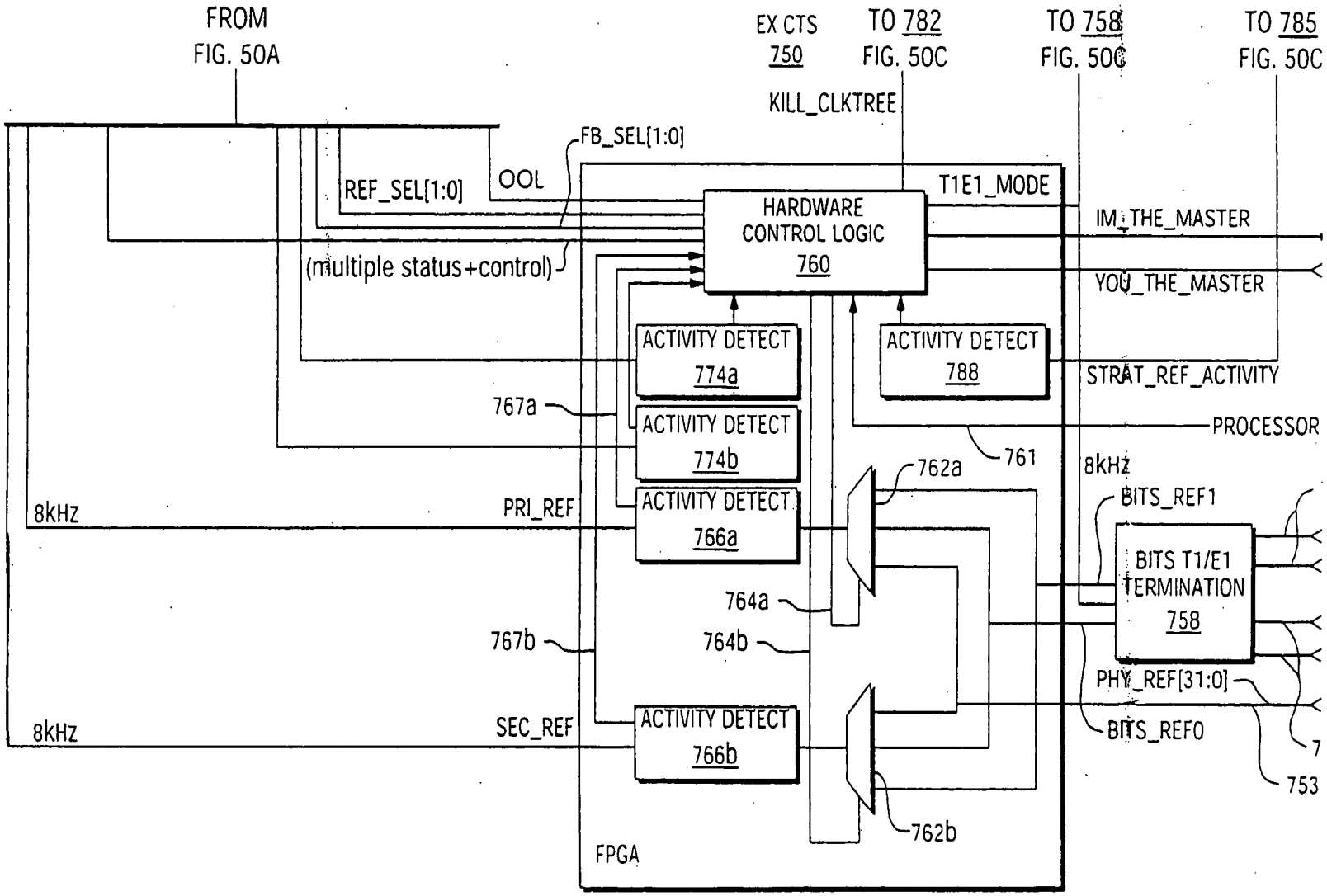

FROM
FIG. 50A
EX CTS
750
TO 782
FIG. 50C
TO 758
FIG. 50C
TO 785
FIG. 50C
KILL_CLKTREE
FB_SEL[1:0]
REF_SEL[1:0]
OOL
T1E1_MODE
HARDWARE
CONTROL LOGIC
760
IM_THE_MASTER
YOU_THE_MASTER
(multiple status+control)
ACTIVITY DETECT
774a
ACTIVITY DETECT
788
STRAT_REF_ACTIVITY
767a
ACTIVITY DETECT
774b
PROCESSOR
761
762a
8kHz
BITS_REF1
8kHz
PRI_REF
ACTIVITY DETECT
766a
BITS T1/E1
TERMINATION
758
764a
764b
767b
PHY_REF[31:0]
8kHz
SEC_REF
ACTIVITY DETECT
766b
BITS_REF0
7
753
762b
FPGA

FIG. 50B

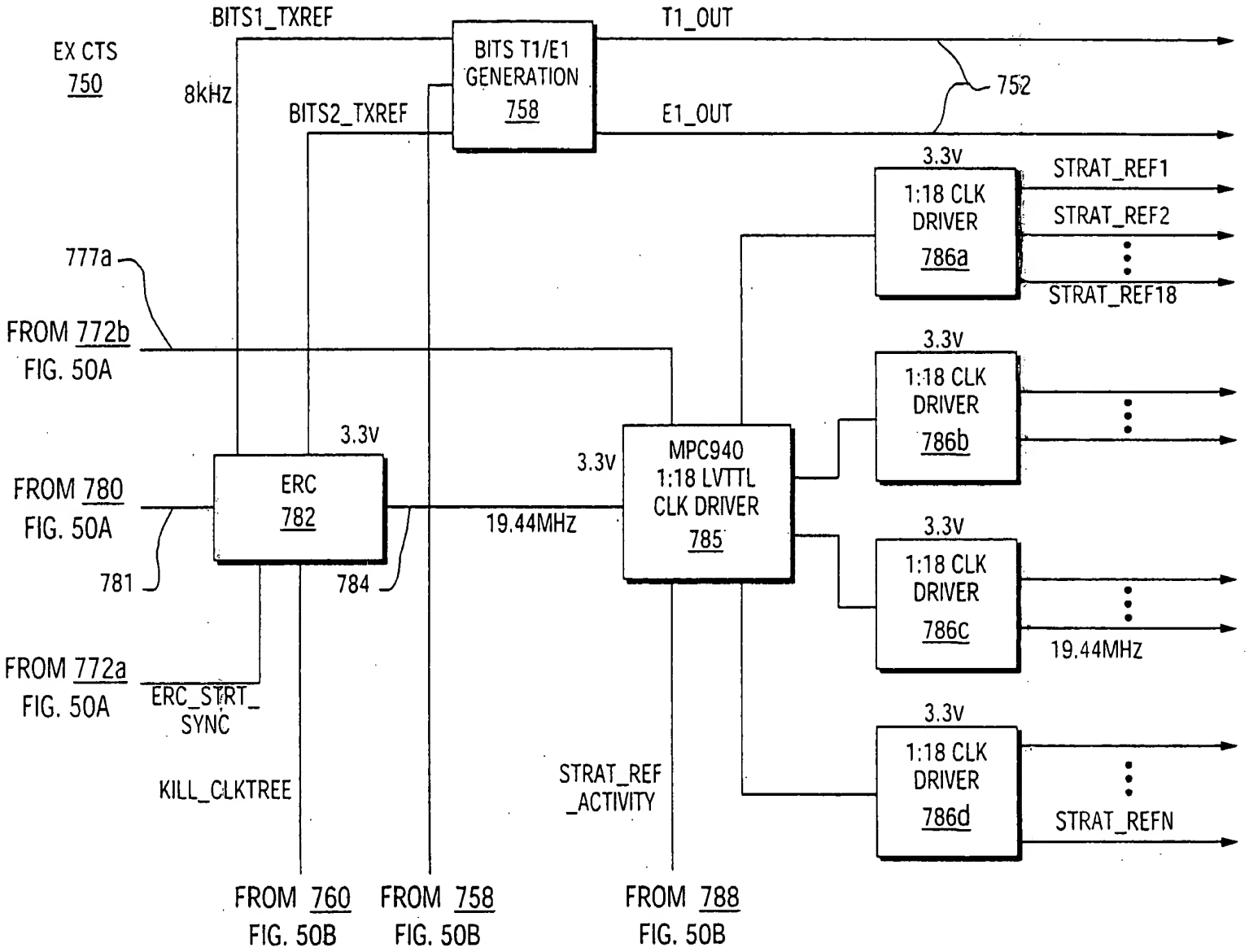

BITS1_TXREF
EX CTS
750
8kHz
BITS2_TXREF
BITS T1/E1
GENERATION
758
T1_OUT
E1_OUT
752
3.3v
1:18 CLK
DRIVER
786a
STRAT_REF1
STRAT_REF2
STRAT_REF18
777a
FROM 772b
FIG. 50A
3.3v
1:18 CLK
DRIVER
786b
3.3v
FROM 780
FIG. 50A
ERC
782
3.3v
MPC940
1:18 LVTTL
CLK DRIVER
785
19.44MHz
781
784
3.3v
1:18 CLK
DRIVER
786c
19.44MHz
FROM 772a
FIG. 50A
ERC_STRT_
SYNC
3.3v
1:18 CLK
DRIVER
786d
STRAT_REFN
KILL_CLKTREE
STRAT_REF
_ACTIVITY
FROM 760
FIG. 50B
FROM 758
FIG. 50B
FROM 788
FIG. 50B

FIG. 50C

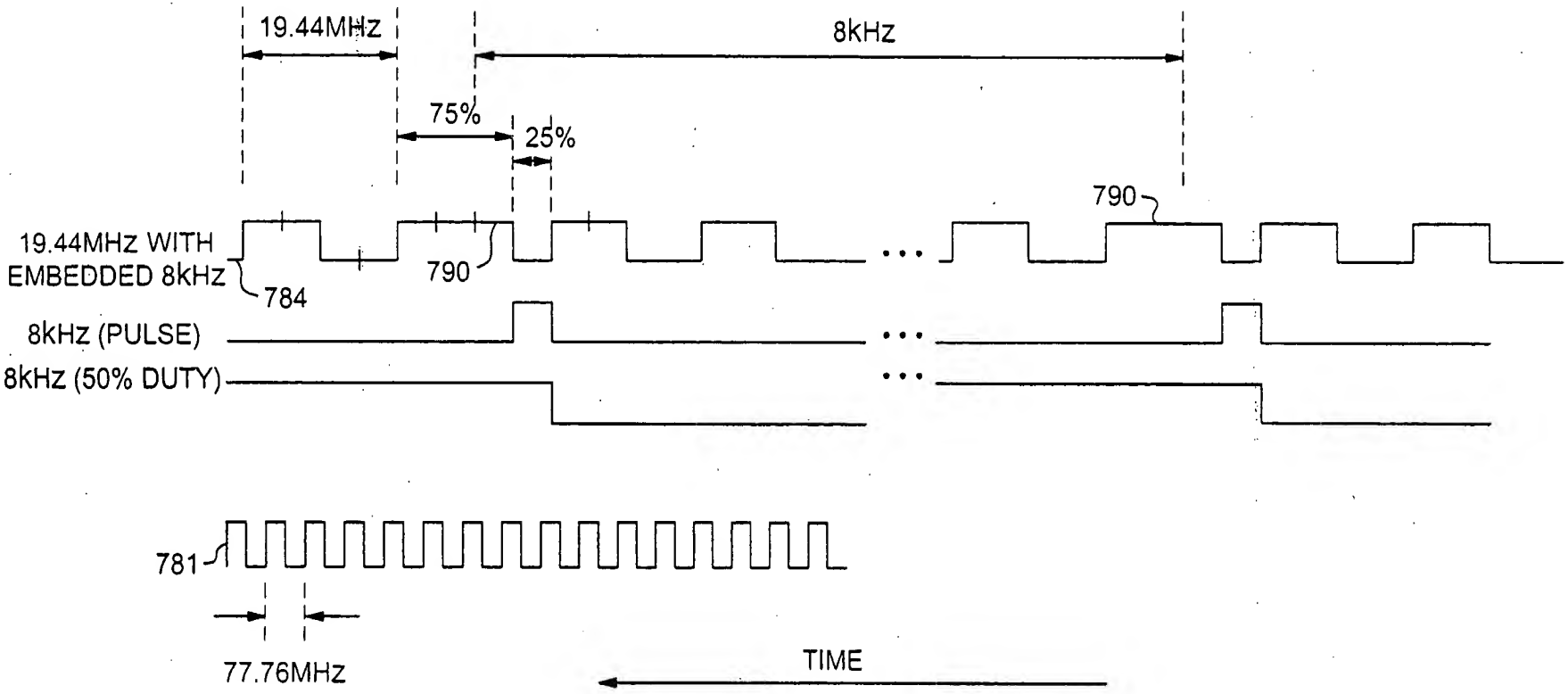

19.44MHz
8kHz
75%
25%
790
19.44MHz WITH
EMBEDDED 8kHz
784
790
8kHz (PULSE)
8kHz (50% DUTY)
781
77.76MHz
TIME

FIG. 51

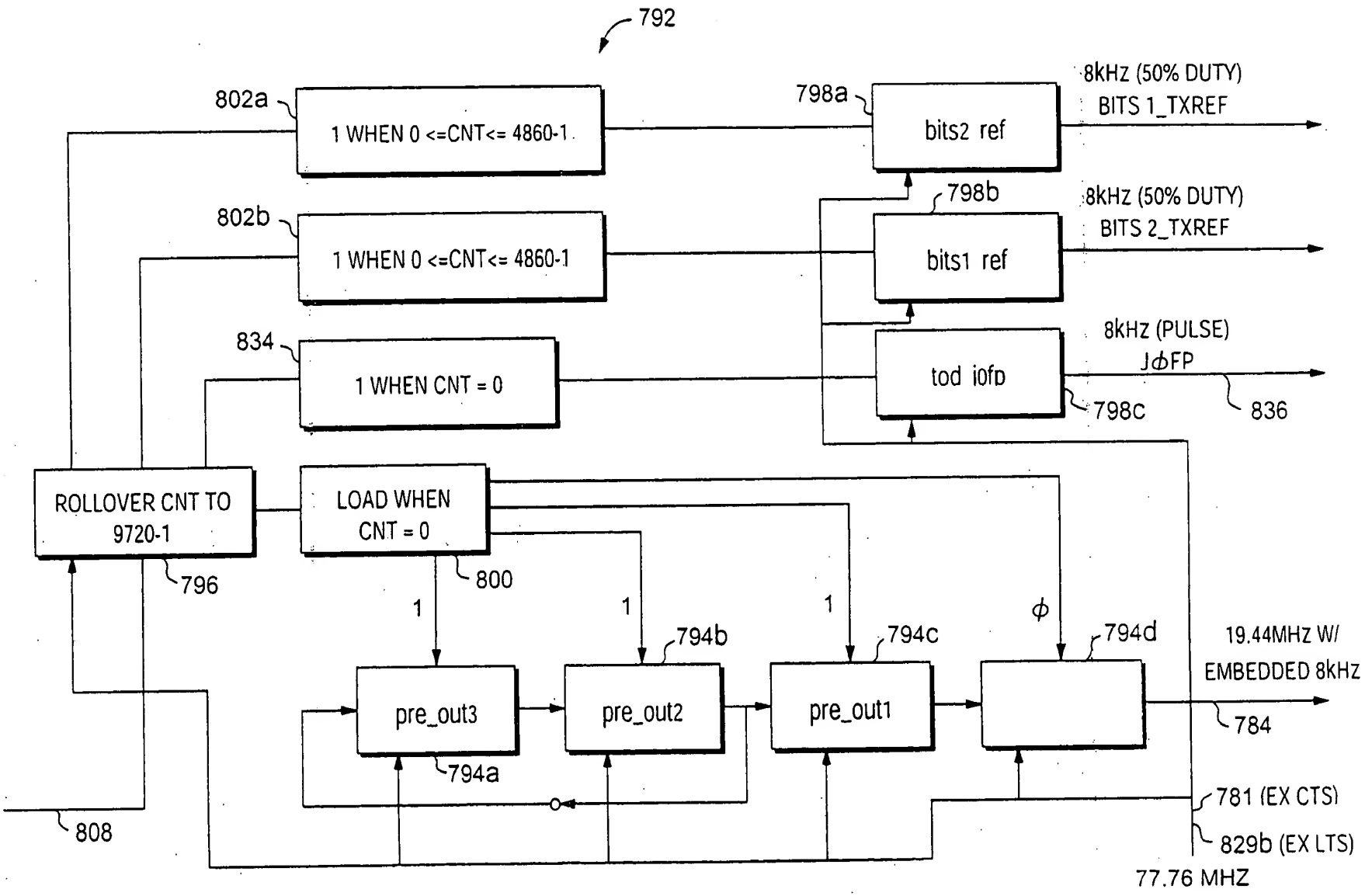

792
802a
1 WHEN 0 <=CNT<= 4860-1
798a
bits2 ref
8kHz (50% DUTY)
BITS 1_TXREF
802b
1 WHEN 0 <=CNT<= 4860-1
798b
bits1 ref
8kHz (50% DUTY)
BITS 2_TXREF
834
1 WHEN CNT = 0
tod iofp
8kHz (PULSE)
JΦFP
798c
836
ROLLOVER CNT TO
9720-1
796
LOAD WHEN
CNT = 0
800
1
1
1
Φ
794b
794c
794d
19.44MHz W/
EMBEDDED 8kHz
pre_out3
pre_out2
pre_out1
784
794a
808
781 (EX CTS)
829b (EX LTS)
77.76 MHZ

FIG. 52

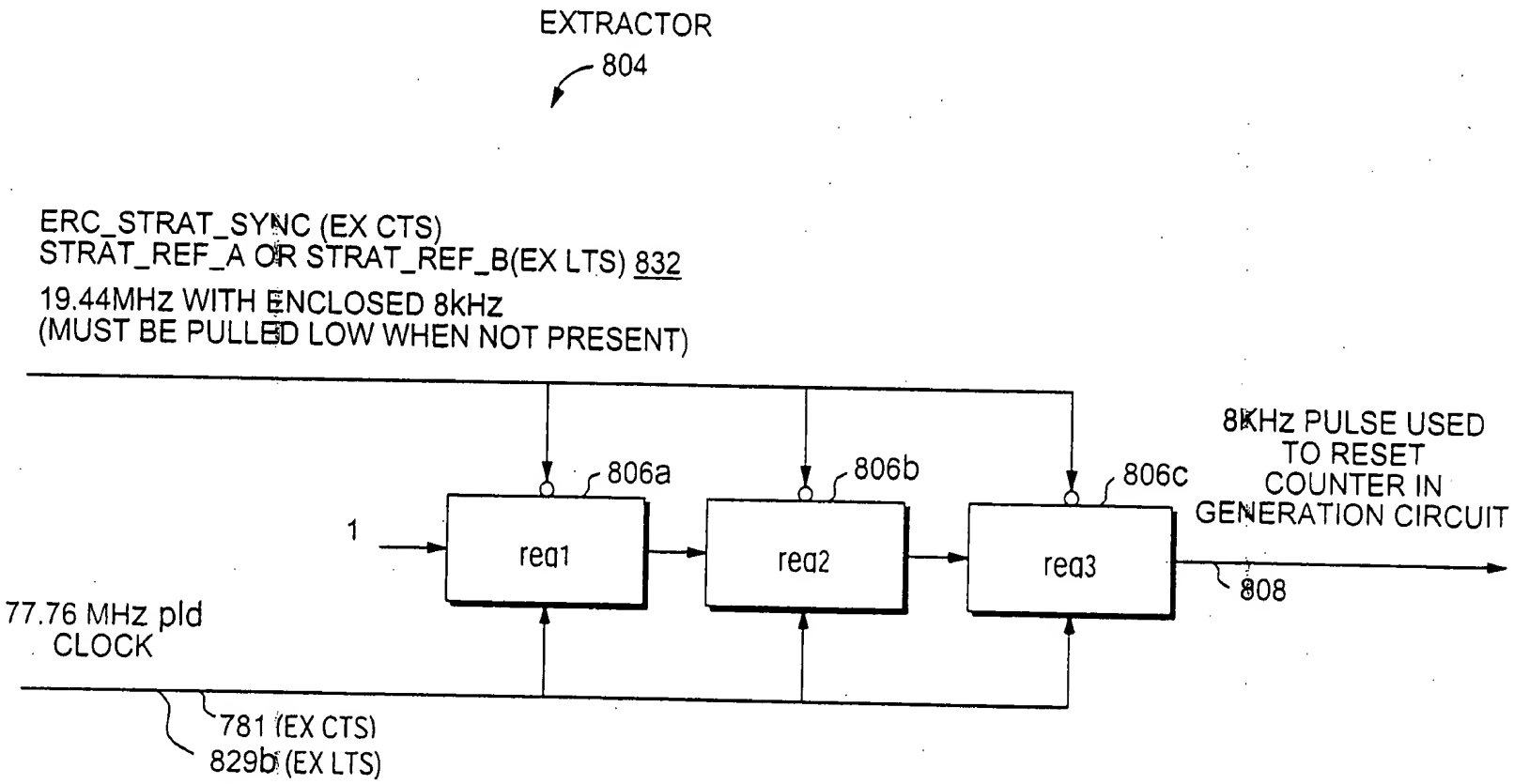

EXTRACTOR
804
ERC_STRAT_SYNC (EX CTS)
STRAT_REF_A OR STRAT_REF_B(EX LTS) 832
19.44MHz WITH ENCLOSED 8kHz
(MUST BE PULLED LOW WHEN NOT PRESENT)
806a
806b
806c
8KHz PULSE USED
TO RESET
COUNTER IN
GENERATION CIRCUIT
1
reg1
reg2
reg3
808
77.76 MHz pld
CLOCK
781 (EX CTS)
829b (EX LTS)

FIG. 53

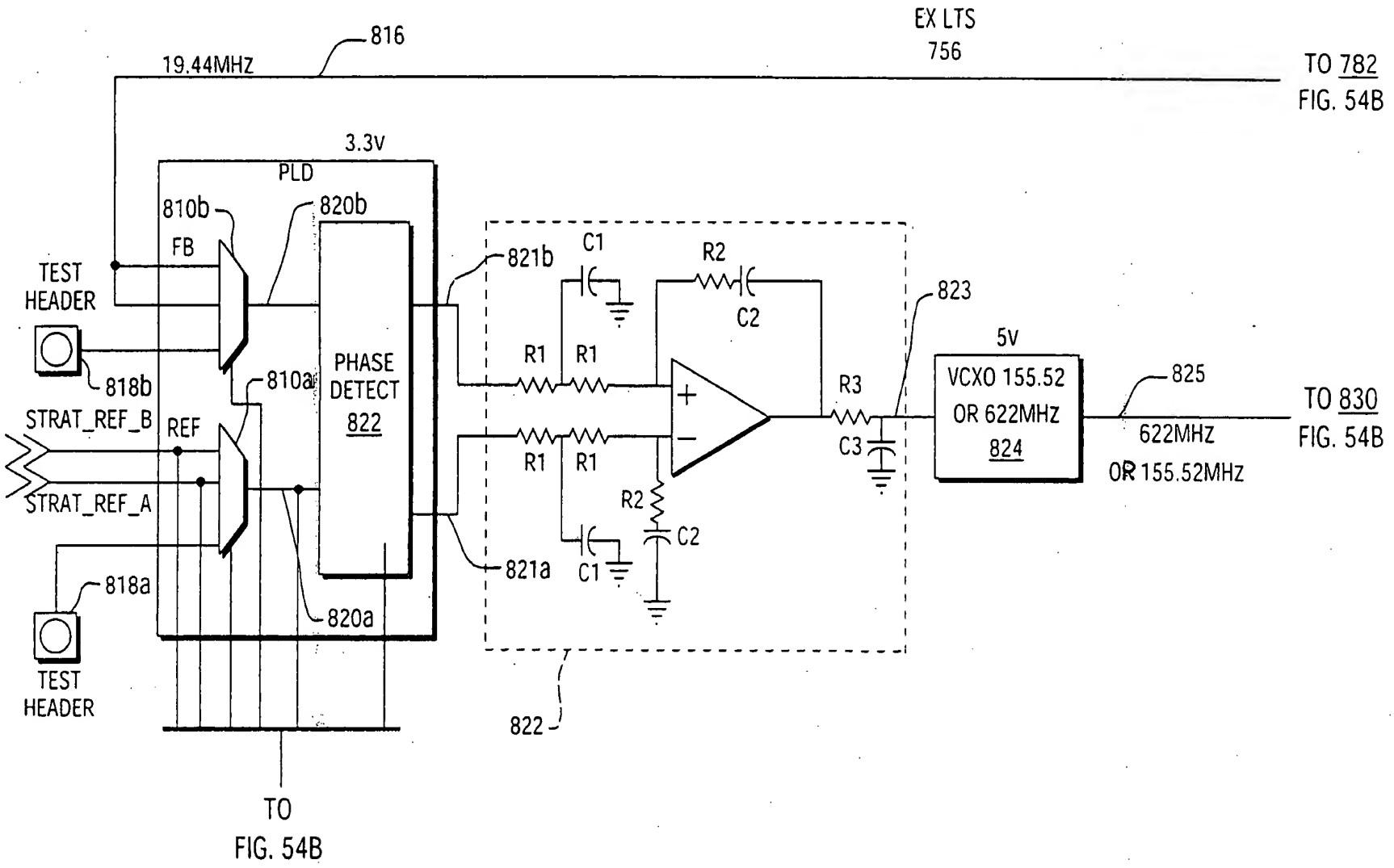

816
19.44MHZ
EX LTS
756
TO 782
FIG. 54B
3.3v
PLD
810b
FB
820b
TEST
HEADER
818b
STRAT_REF_B
REF
810a
PHASE
DETECT
822
STRAT_REF_A
818a
820a
TEST
HEADER
TO
FIG. 54B
821b
C1
R2
C2
R1
R1
R1
R1
R2
C2
C1
821a
822
823
5V
R3
C3
VCXO 155.52
OR 622MHZ
824
825
622MHZ
OR 155.52MHZ
TO 830
FIG. 54B

FIG. 54A

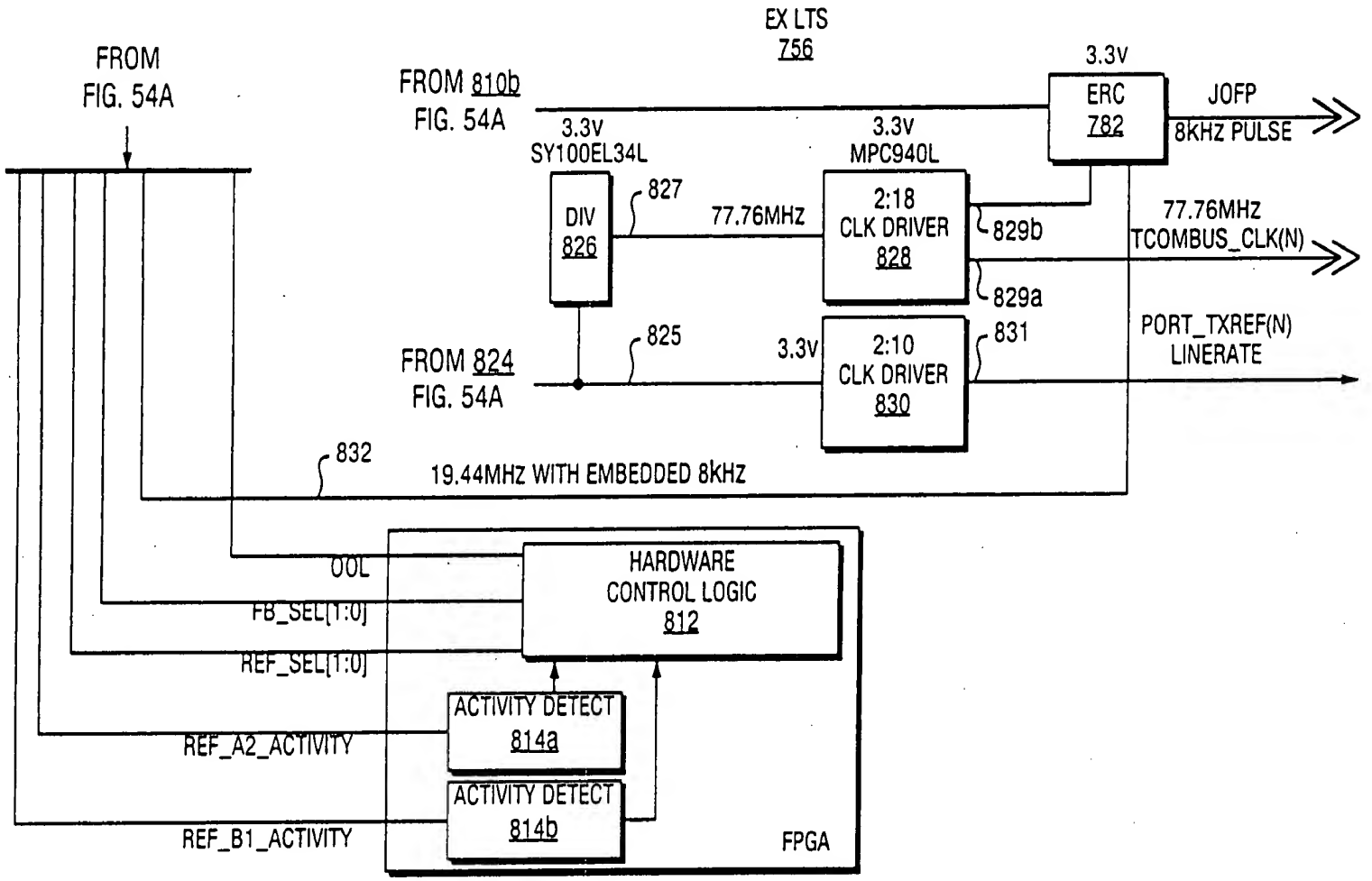

FROM
FIG. 54A
EX LTS
756
FROM 810b
FIG. 54A
3.3v
ERC
782
JOFP
8KHZ PULSE
3.3v
SY100EL34L
3.3v
MPC940L
DIV
826
827
77.76MHZ
2:18
CLK DRIVER
828
829b
77.76MHZ
TCOMBUS_CLK(N)
829a
FROM 824
FIG. 54A
825
3.3v
2:10
CLK DRIVER
830
831
PORT_TXREF(N)
LINERATE
832
19.44MHZ WITH EMBEDDED 8KHZ
OOL
FB_SEL[1:0]
REF_SEL[1:0]
HARDWARE
CONTROL LOGIC
812
ACTIVITY DETECT
814a
REF_A2_ACTIVITY
ACTIVITY DETECT
814b
REF_B1_ACTIVITY
FPGA

FIG. 54B

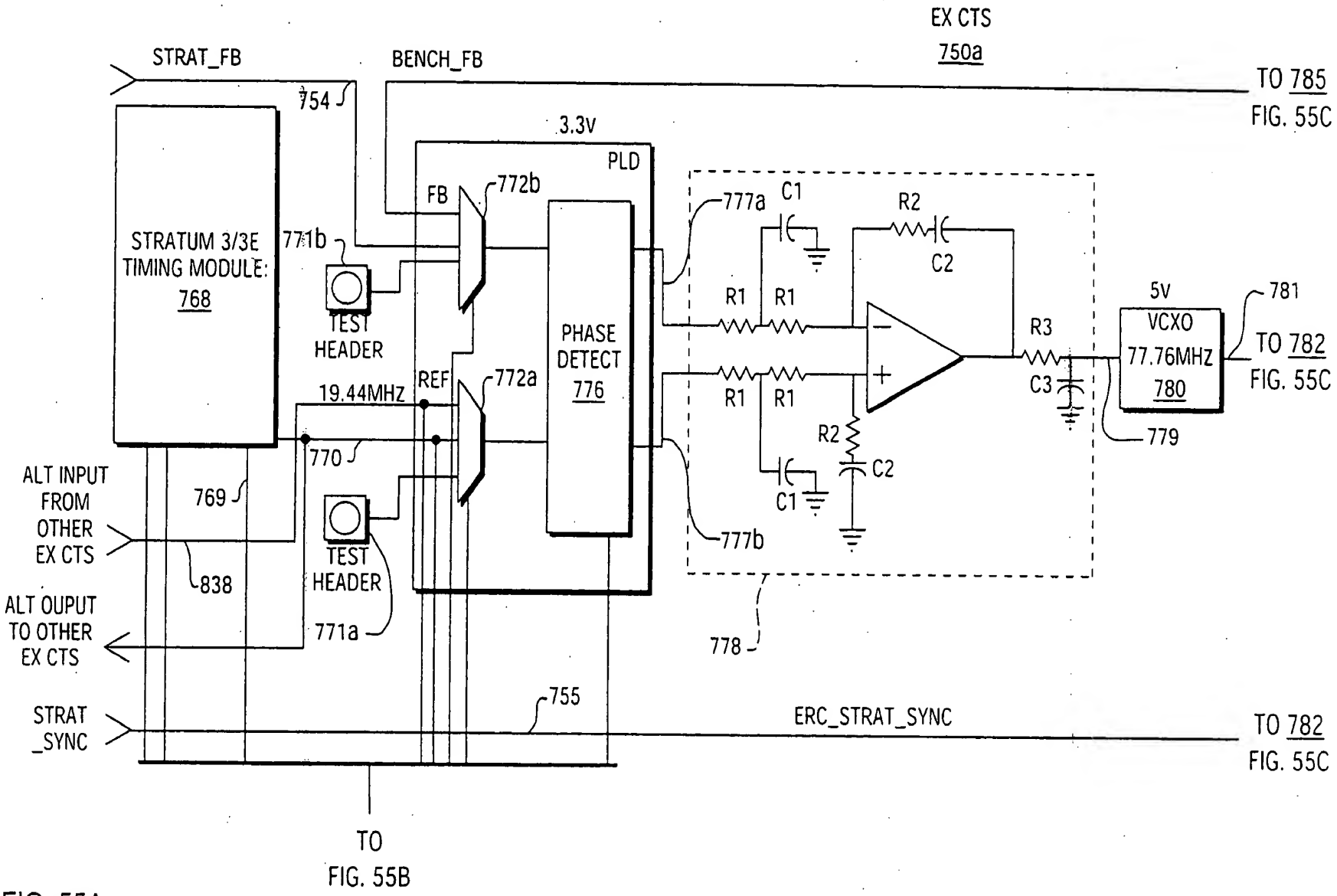

EX CTS
750a
STRAT_FB
BENCH_FB
TO 785
FIG. 55C
754
3.3v
PLD
STRATUM 3/3E
TIMING MODULE
768
771b
TEST
HEADER
FB
772b
772a
REF
19.44MHz
PHASE
DETECT
776
777a
C1
R2
C2
R1
R1
R3
5v
VCXO
77.76MHZ
780
781
TO 782
FIG. 55C
C3
779
770
769
ALT INPUT
FROM
OTHER
EX CTS
838
TEST
HEADER
771a
777b
778
ALT OUPUT
TO OTHER
EX CTS
755
STRAT
_SYNC
ERC_STRAT_SYNC
TO 782
FIG. 55C
TO
FIG. 55B

FIG. 55A

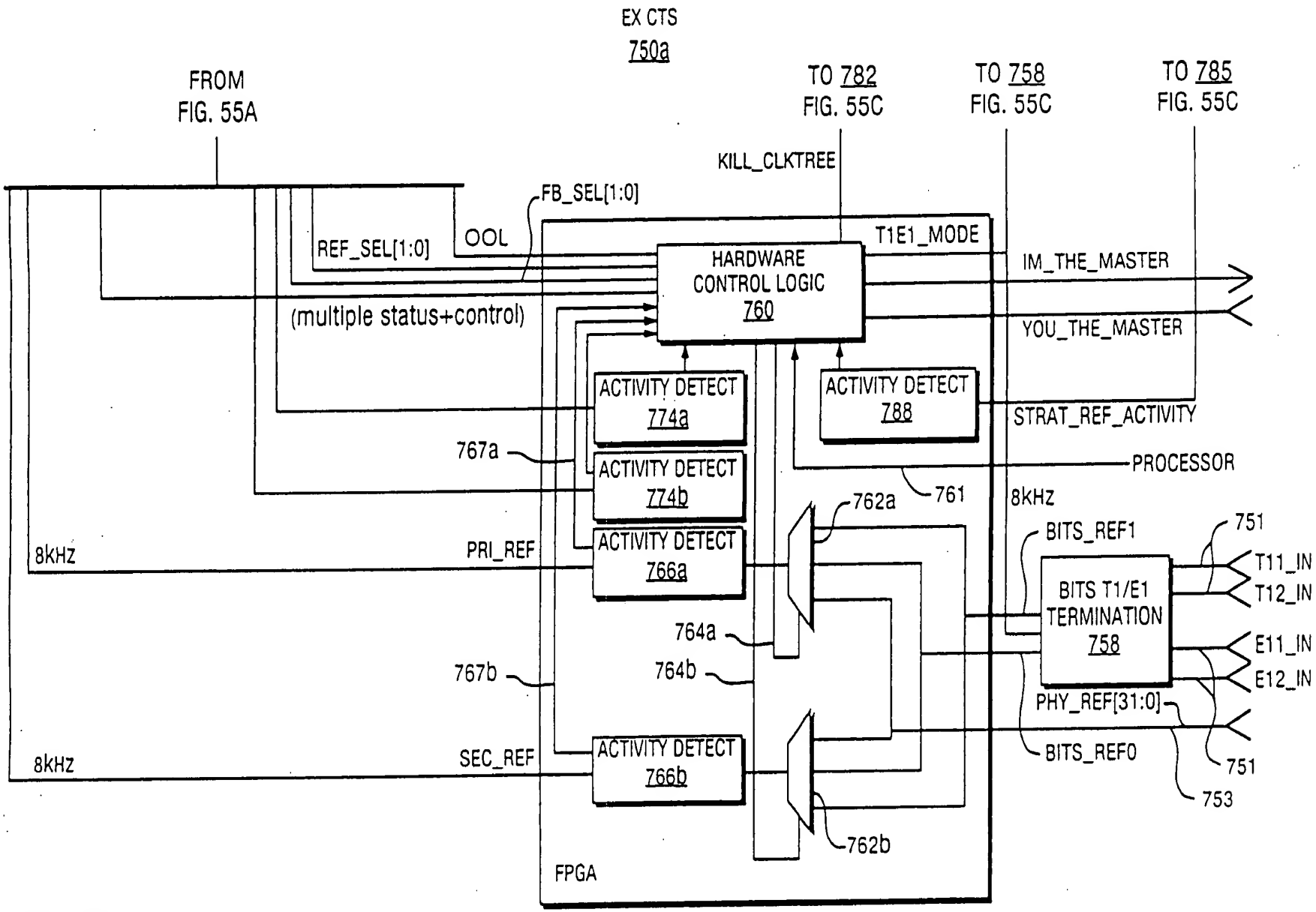

EX CTS
750a
FROM
FIG. 55A
TO 782
FIG. 55C
TO 758
FIG. 55C
TO 785
FIG. 55C
KILL_CLKTREE
FB_SEL[1:0]
REF_SEL[1:0]
OOL
T1E1_MODE
HARDWARE
CONTROL LOGIC
760
IM_THE_MASTER
YOU_THE_MASTER
(multiple status+control)
ACTIVITY DETECT
774a
ACTIVITY DETECT
788
STRAT_REF_ACTIVITY
767a
ACTIVITY DETECT
774b
PROCESSOR
761
762a
8kHZ
BITS_REF1
751
ACTIVITY DETECT
766a
PRI_REF
8kHZ
T11_IN
T12_IN
BITS T1/E1
TERMINATION
758
764a
E11_IN
767b
764b
E12_IN
PHY_REF[31:0]
ACTIVITY DETECT
766b
SEC_REF
8kHZ
BITS_REF0
751
753
762b
FPGA

FIG. 55B

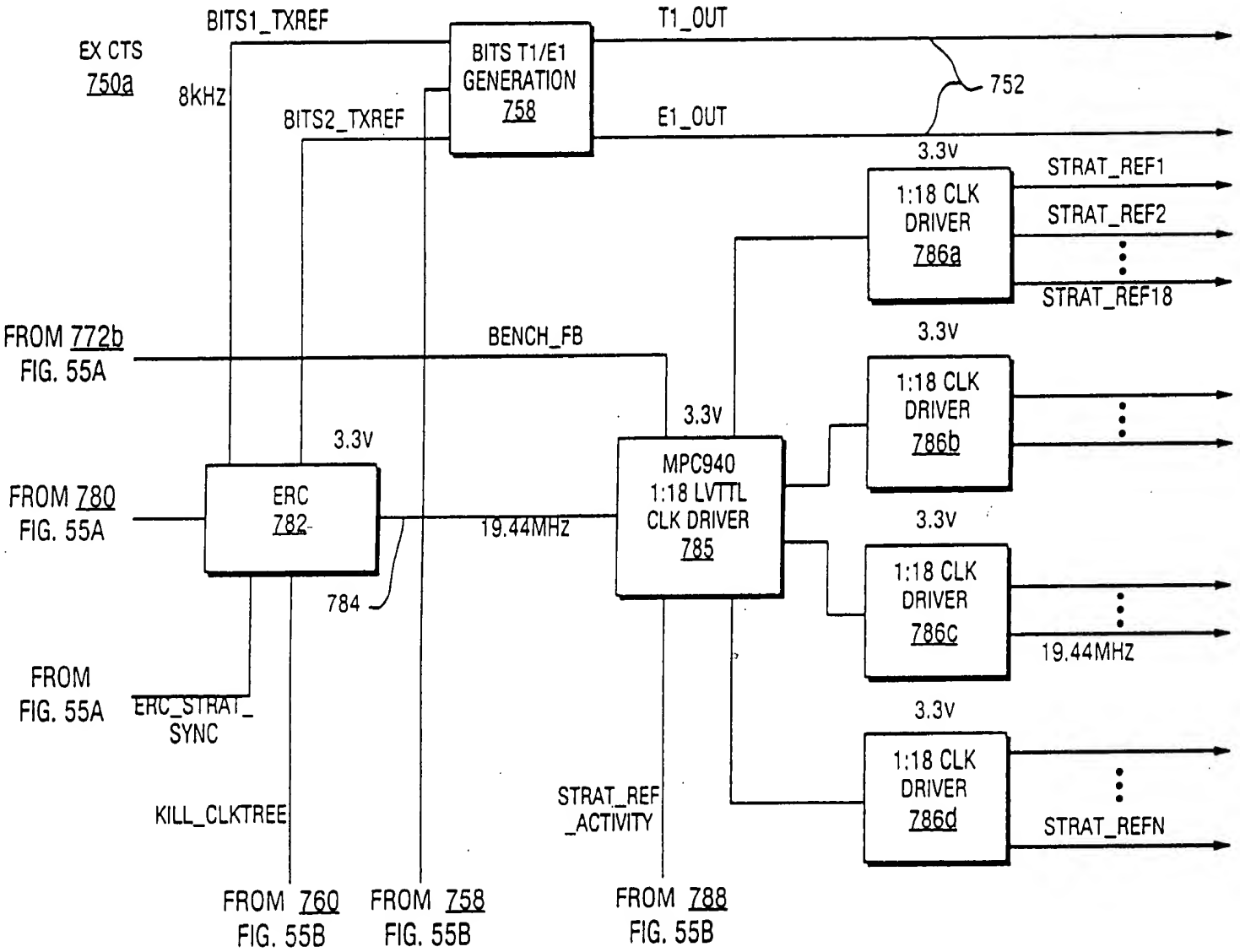

BITS1_TXREF
EX CTS
750a
8kHZ
BITS2_TXREF
BITS T1/E1
GENERATION
758
T1_OUT
E1_OUT
752
3.3v
1:18 CLK
DRIVER
786a
STRAT_REF1
STRAT_REF2
STRAT_REF18
FROM 772b
FIG. 55A
BENCH_FB
3.3v
1:18 CLK
DRIVER
786b
3.3v
FROM 780
FIG. 55A
ERC
782
19.44MHZ
MPC940
1:18 LVTTL
CLK DRIVER
785
3.3v
784
1:18 CLK
DRIVER
786c
19.44MHZ
FROM
FIG. 55A
ERC_STRAT_
SYNC
3.3v
1:18 CLK
DRIVER
786d
STRAT_REFN
KILL_CLKTREE
STRAT_REF
_ACTIVITY
FROM 760
FIG. 55B
FROM 758
FIG. 55B
FROM 788
FIG. 55B

FIG. 55C

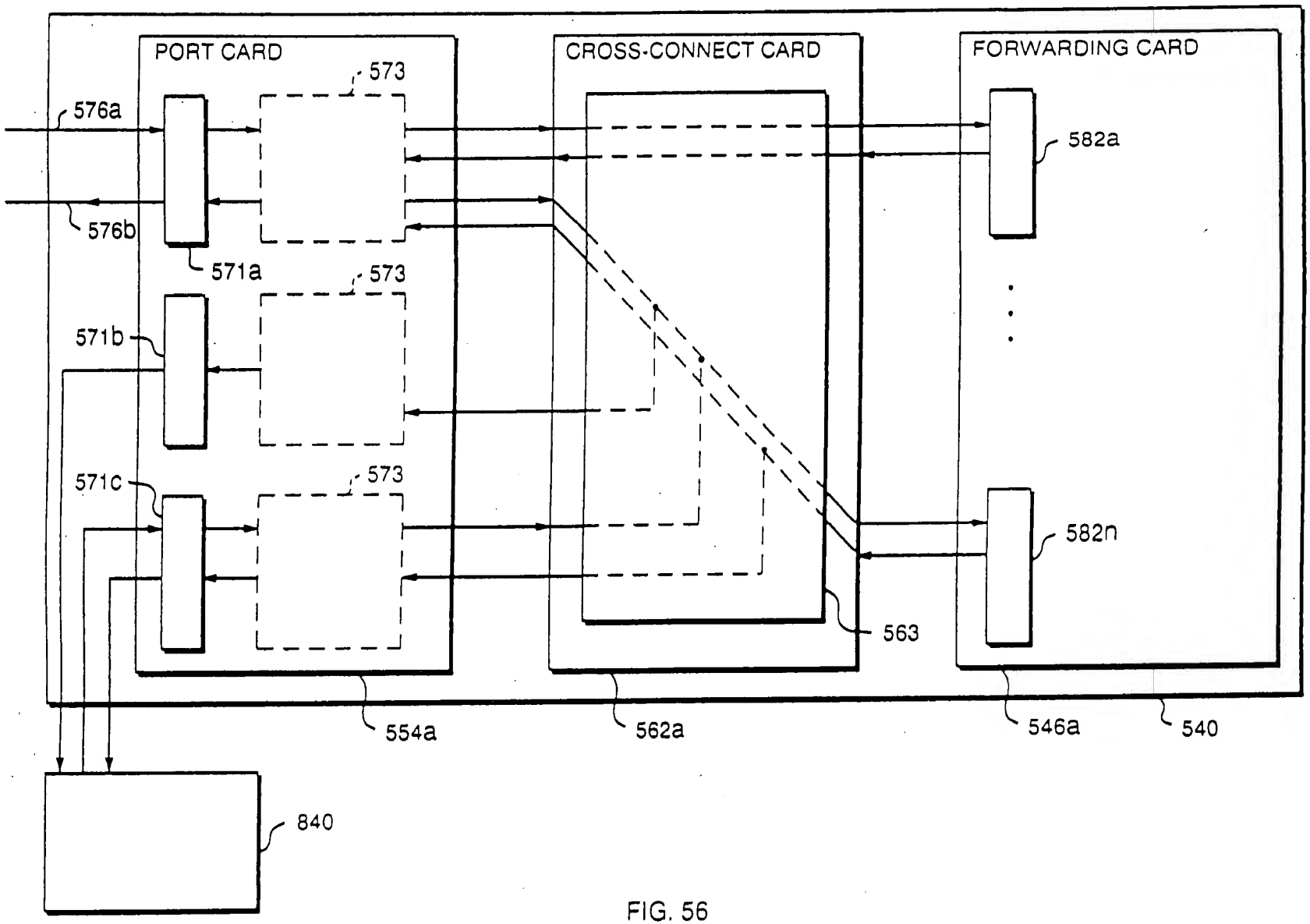

PORT CARD
CROSS-CONNECT CARD
FORWARDING CARD
573
576a
576b
571a
573
571b
573
571c
582a
582n
563
554a
562a
546a
540
840

FIG. 56

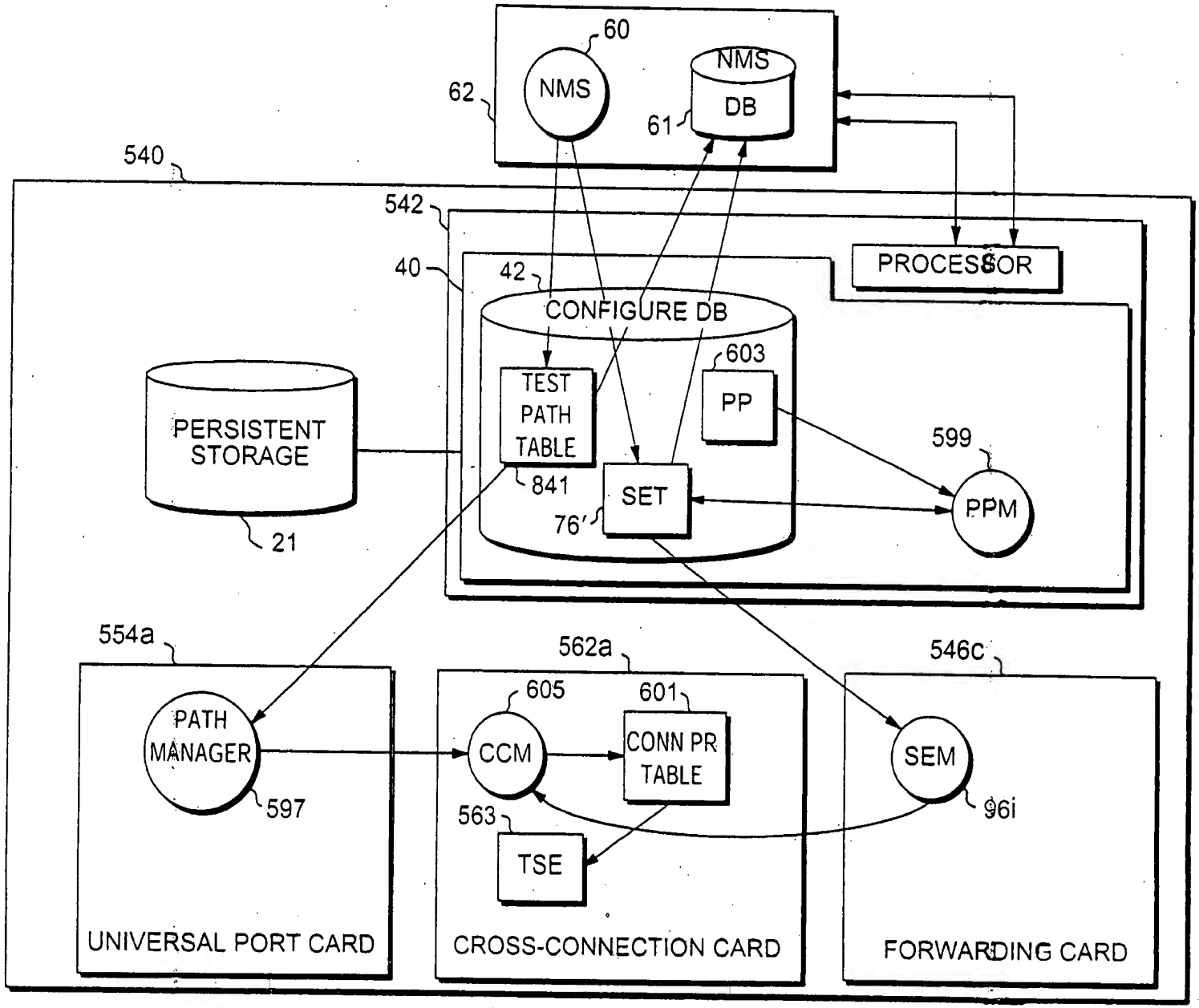

60
NMS
NMS
DB
62
61
540
542
40
42
PROCESSOR
CONFIGURE DB
603
TEST
PATH
TABLE
PP
PERSISTENT
STORAGE
599
841
SET
PPM
76'
21
554a
562a
546c
605
601
PATH
MANAGER
CCM
CONN PR
TABLE
SEM
597
563
96i
TSE
UNIVERSAL PORT CARD
CROSS-CONNECTION CARD
FORWARDING CARD

FIG. 57

TEST PATH TABLE 841

	PATH LID	UP PORT LID	TIME SLOT	# OF TIME SLOTS	MONITOR (844)	ENABLE PORT RECEIVER (845)	...
842	1666	1232	4	3	INGRESS	NO	
843	1666	1233	4	3	EGRESS	NO	
844	1666	1233	4	3	INGRESS	YES	
	⋮	⋮	⋮	⋮			⋮

FIG. 58

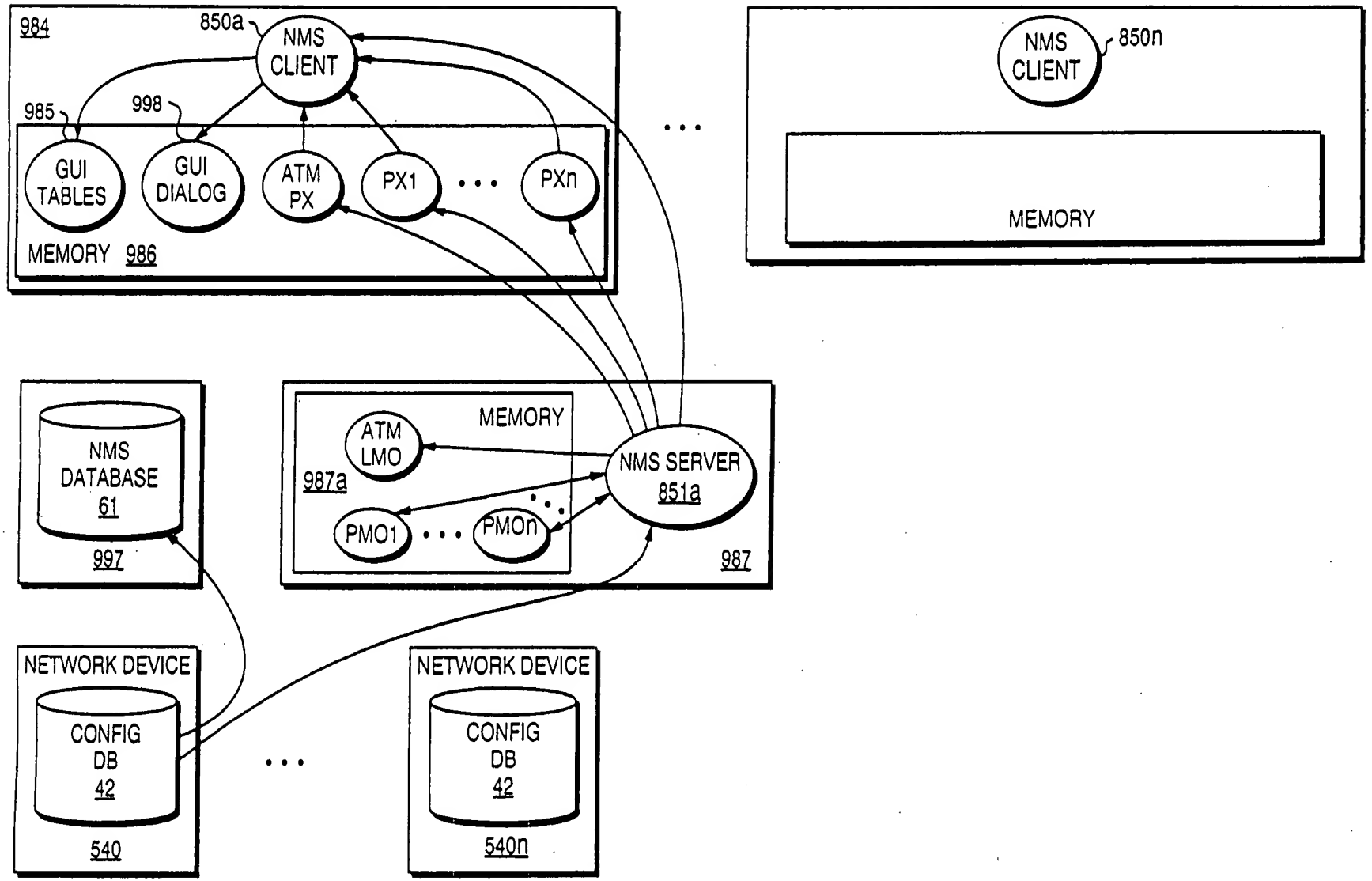

984
850a
NMS CLIENT
985
998
GUI TABLES
GUI DIALOG
ATM PX
PX1
PXn
MEMORY 986
NMS CLIENT
850n
MEMORY
NMS DATABASE 61
997
MEMORY
ATM LMO
987a
NMS SERVER 851a
PMO1
PMOn
987
NETWORK DEVICE
CONFIG DB 42
540
NETWORK DEVICE
CONFIG DB 42
540n

FIG. 59

MANAGED DEVICE TABLE 983

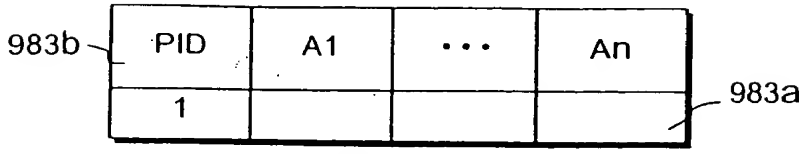


FIG 60A

CHASSIS TABLE 988

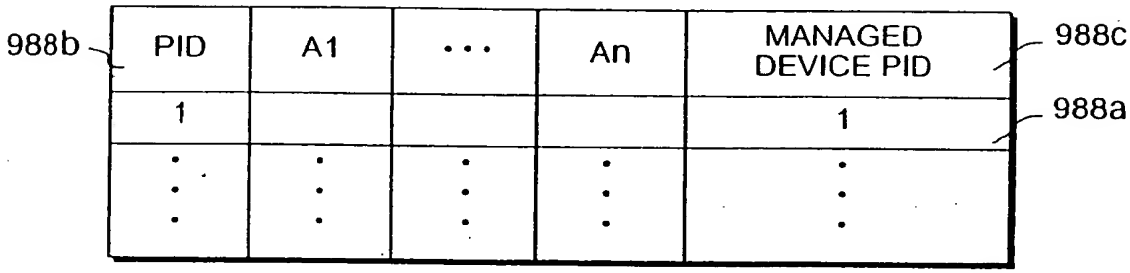


FIG 60B

SHELF TABLE 989

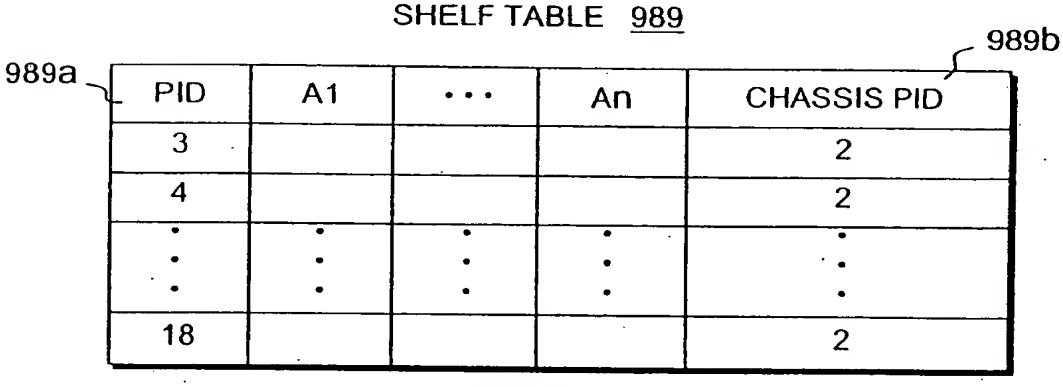


FIG 60C

SLOT TABLE 990

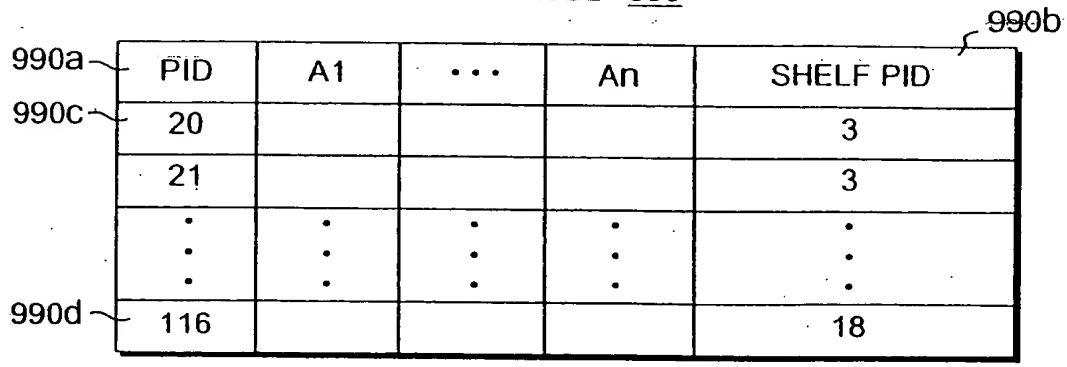


FIG 60D

CARD TABLE 47'

47a

47b

PID	CWD TYPE	VERSION NO.	SLOT PID	...
120	0XF002	3	20	
121	0XF002	4	21	
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
124	0X6002	1	24	
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
131	0XF002	1	31	
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

FIG 60E

PORT TABLE 49'

49a

49b

PID	PORT TYPE	VERSION NO.	CARD PID	...
300	00620	1	20	
301	00620	1	20	
302	00620	1	20	
303	00620	1	20	
304	00820	1	20	
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
400	OO620	1	39	
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

FIG 60F

SONET PATH TABLE 600'

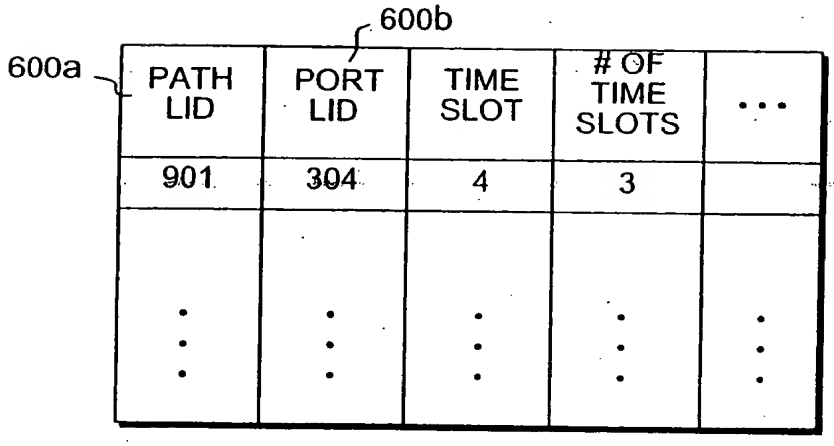


FIG. 60G

SERVICE ENDPOINT TABLE 76''

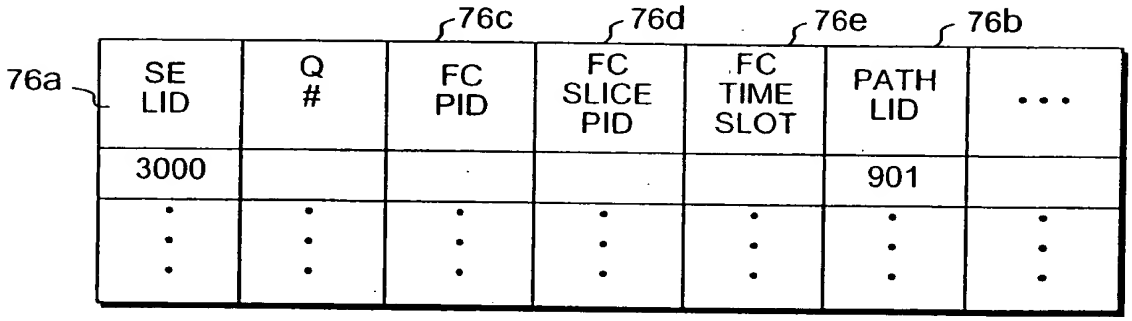


FIG. 60H

ATM IF TABLE 114''

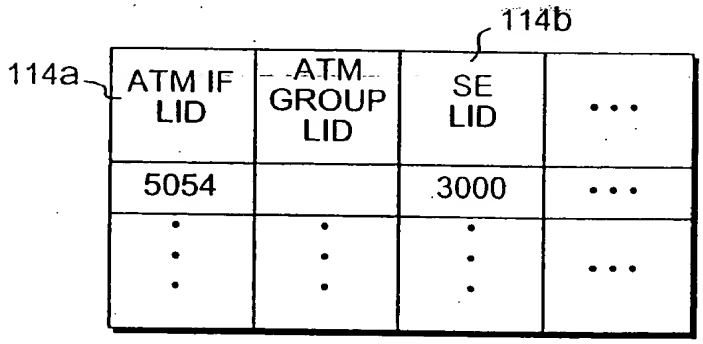


FIG. 60I

VIRTUAL ATM IF TABLE 993

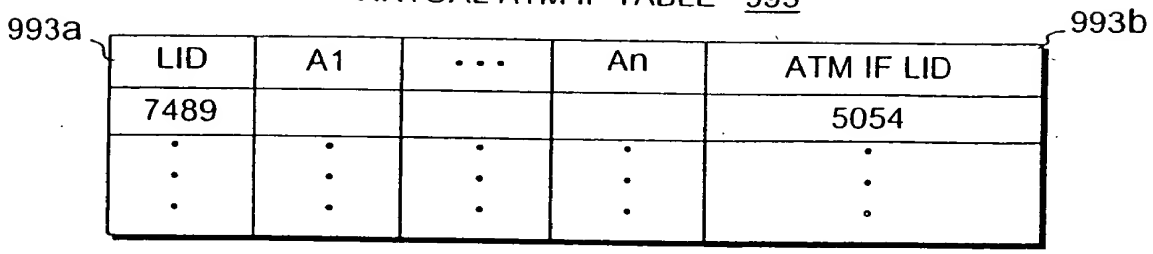


FIG 60J

VIRTUAL CONNECTION TABLE 994

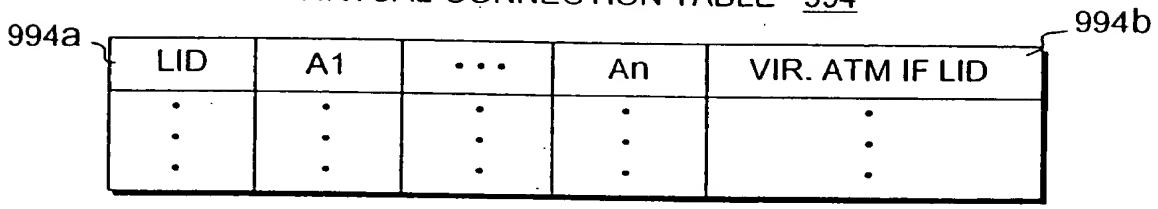


FIG 60K

VIRTUAL LINK TABLE 995

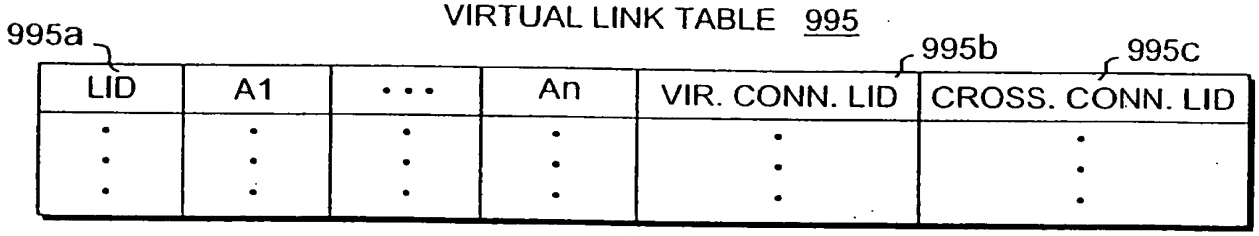


FIG 60L

CROSS-CONNECT TABLE 996

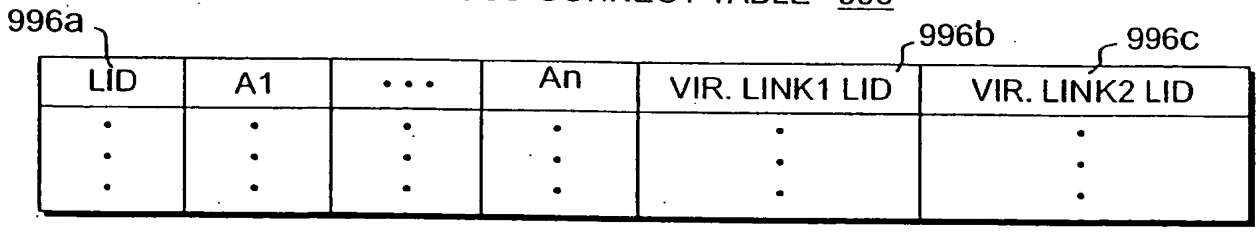


FIG 60M

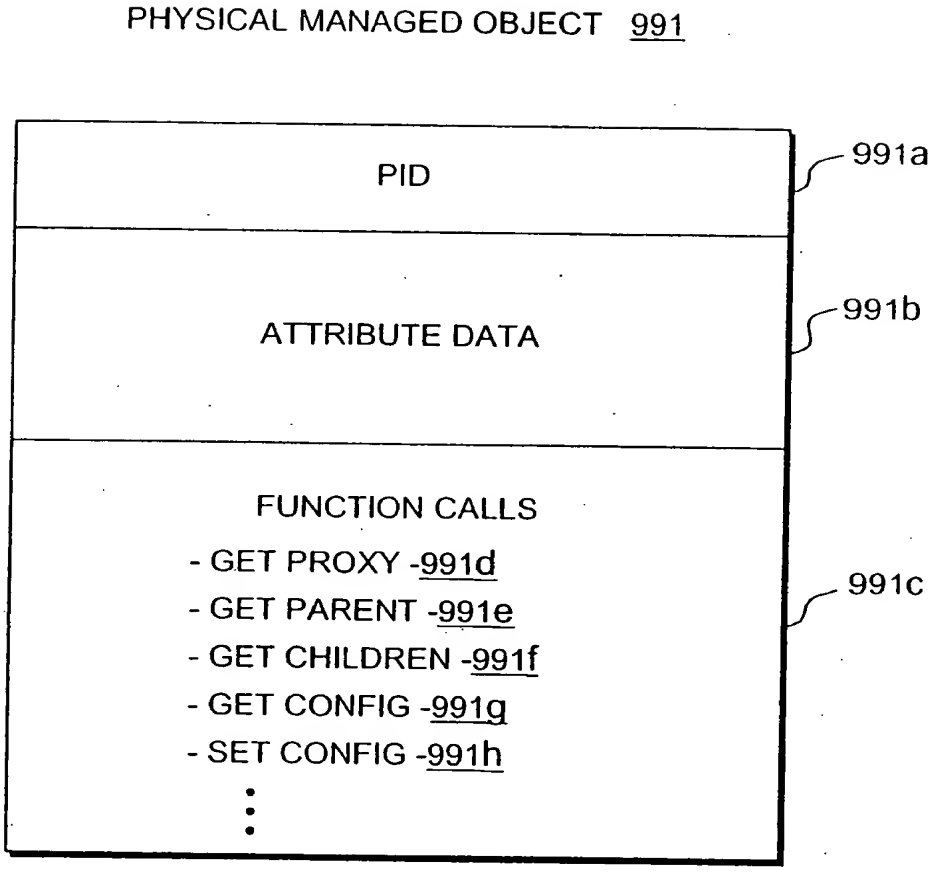

PHYSICAL MANAGED OBJECT 991
PID
991a
ATTRIBUTE DATA
991b
FUNCTION CALLS
- GET PROXY -991d
- GET PARENT -991e
- GET CHILDREN -991f
- GET CONFIG -991g
- SET CONFIG -991h
991c

FIG. 61A

PROXY 992

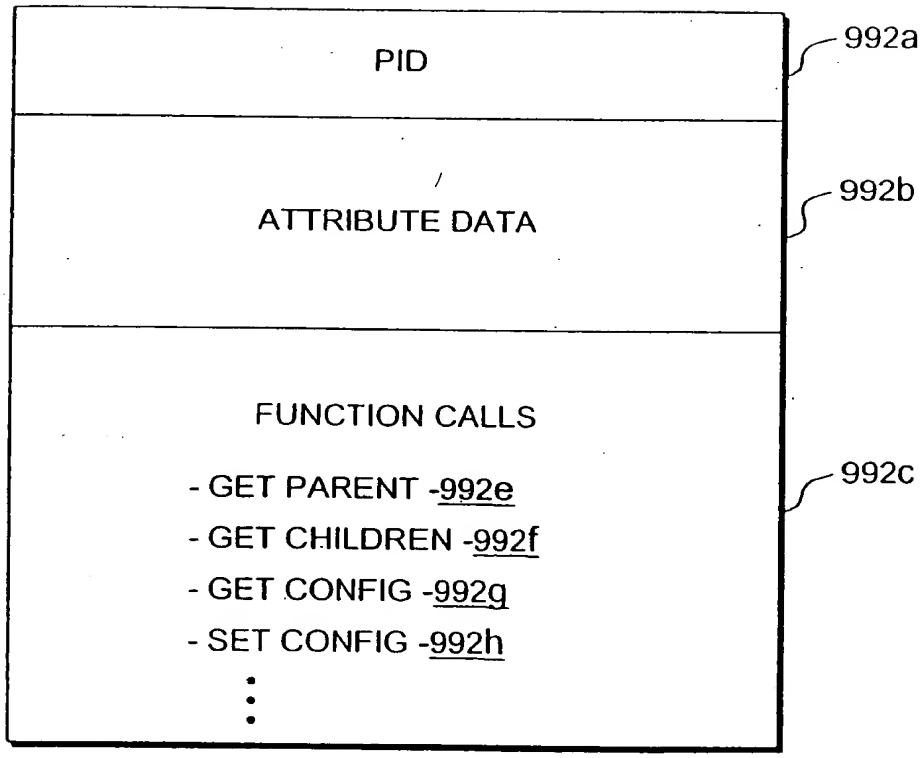


FIG. 61B

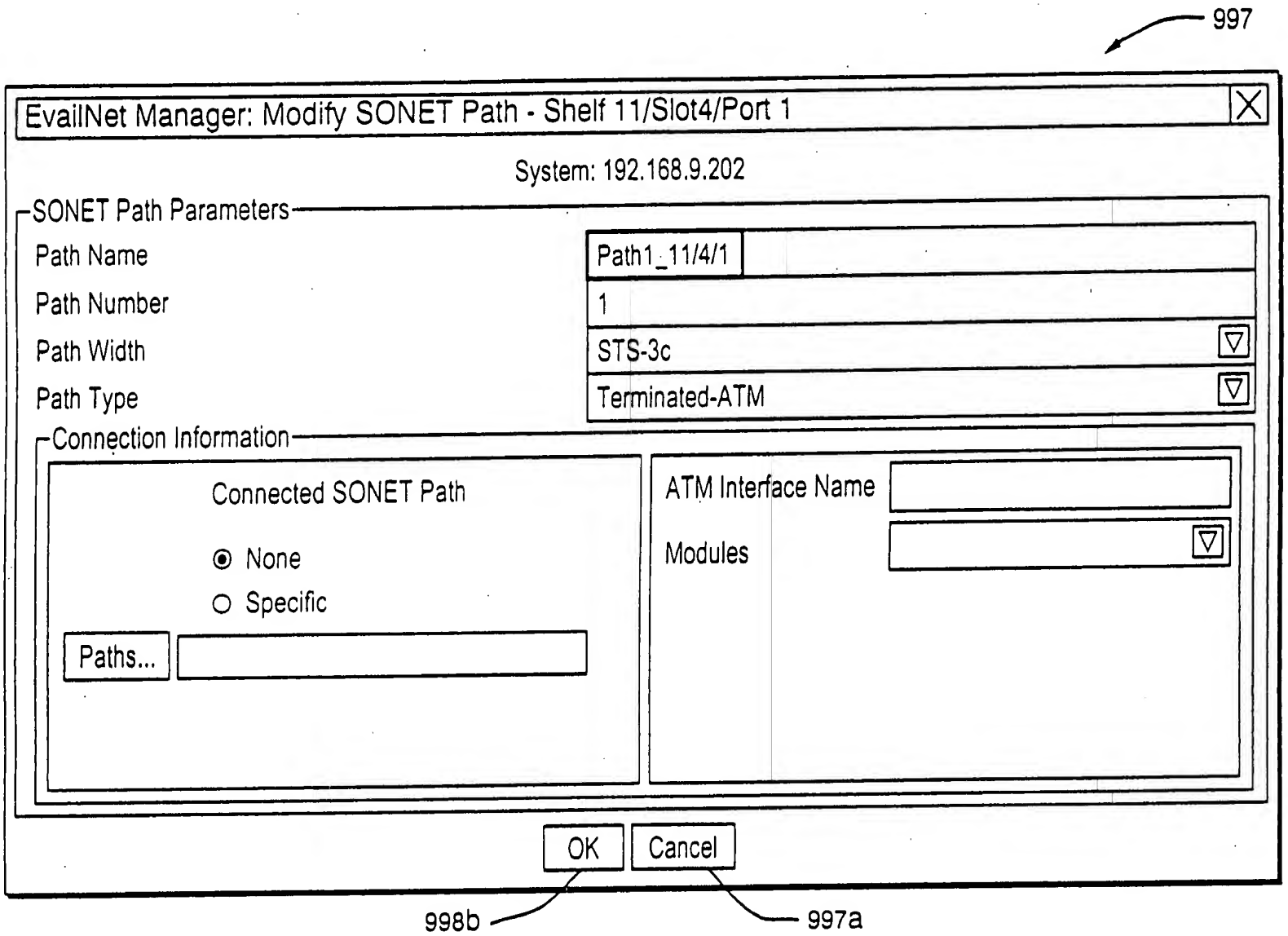

997
EvailNet Manager: Modify SONET Path - Shelf 11/Slot4/Port 1
System: 192.168.9.202
SONET Path Parameters
Path Name
Path1_11/4/1
Path Number
1
Path Width
STS-3c
Path Type
Terminated-ATM
Connection Information
Connected SONET Path
None
Specific
Paths...
ATM Interface Name
Modules
OK
Cancel
998b
997a

FIG. 62

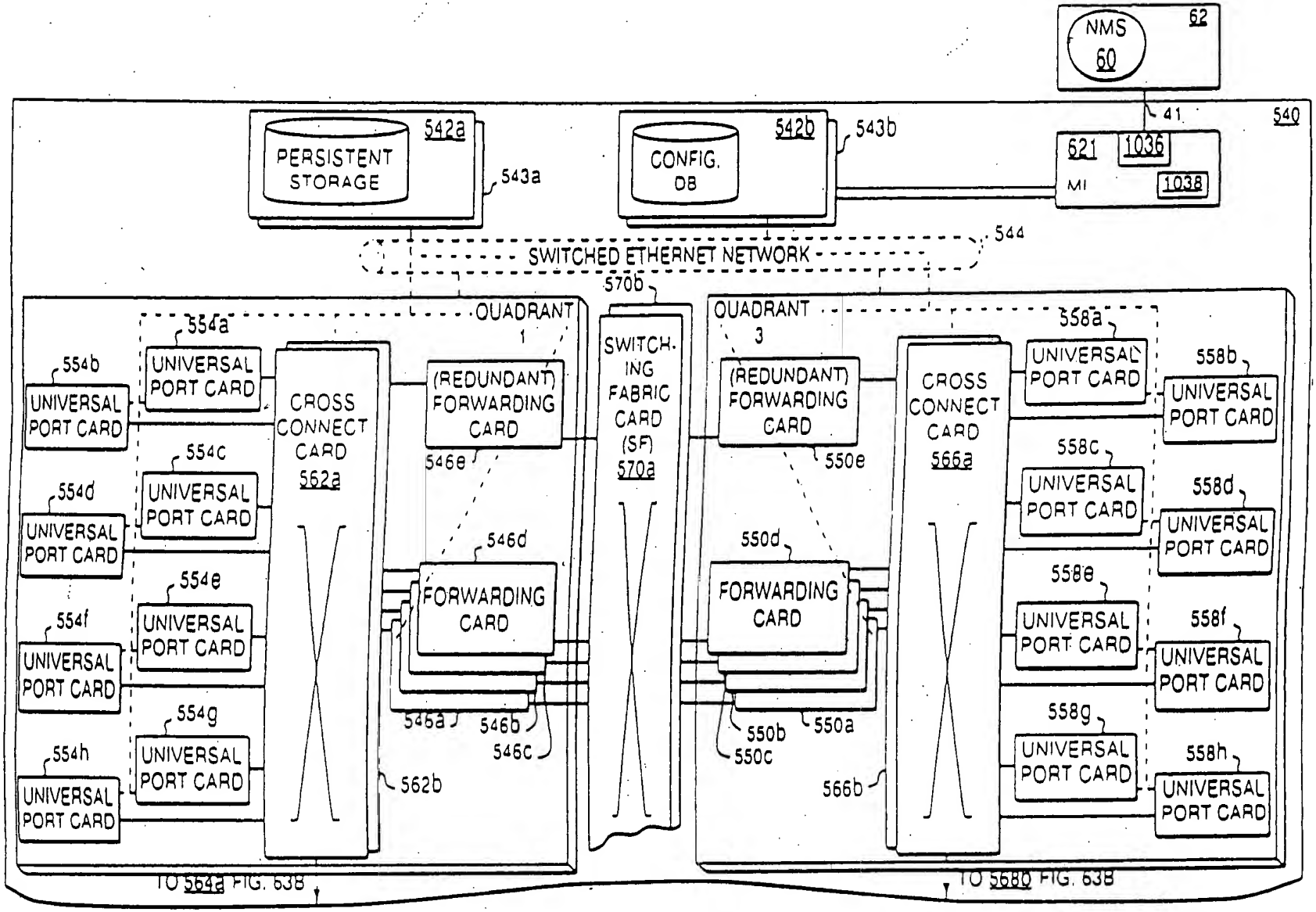

NMS
60
62
41
540
PERSISTENT STORAGE
542a
543a
CONFIG. DB
542b
543b
621
1036
MI
1038
544
SWITCHED ETHERNET NETWORK
570b
QUADRANT 1
554a
554b
UNIVERSAL PORT CARD
554c
554d
554e
554f
554g
554h
CROSS CONNECT CARD
562a
562b
(REDUNDANT) FORWARDING CARD
546e
FORWARDING CARD
546d
546a
546b
546c
SWITCHING FABRIC CARD (SF)
570a
QUADRANT 3
(REDUNDANT) FORWARDING CARD
550e
FORWARDING CARD
550d
550b
550c
550a
566a
566b
558a
558b
558c
558d
558e
558f
558g
558h
TO 564a FIG. 63B
TO 568a FIG. 63B

FIG. 63

ADMINISTRATION MANAGED DEVICE TABLE 1014'

1014a' LID	HOST ADDRESS	PORT ADDRESS	RETRY	TIMEOUT	ADMIN. PASSWORD	PROV. PASSWORD	VIEWER PASSWORD	1014e' PHYSICAL ID	1014f' PHYSICAL ID
9046	192.168.9.202	1521			TEAM 1	TEAM 2	TEAM 3		
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG. 64